



PAT Junes





# SCIENTISTS' INTÉRNATIONAL DIRECTORY

CONTAINING

THE NAMES, ADDRESSES, SPECIAL DEPARTMENTS OF STUDY, ETC., OF PROFESSIONAL AND AMATEUR NATURALISTS, CHEMISTS, PHYSICISTS, ASTRONOMERS, ETC., ETC.

COMPILED BY

SAMUEL E. CASSINO

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### NOTICE.

In this edition of the Directory, all names which have been heard from since the last issue are followed by an (\*). In the American portion of the Directory, names which are followed by an (?) have not replied to the blanks sent them for at least two years, and all such will be dropped from the next edition of the work, unless heard from in the meantime. Names which are not followed by an (\*) or an (?) are, without doubt, correct, but have failed to reply to the last blanks sent to their address.

For convenience, an index has been placed in the front of the book, and the list of abbreviations will be found immediately following.

Thanks are due to many persons who have assisted us in the compilation of this volume.

Dr. Henrik Saute, Jr., Stockholm, of the Geological Survey of Sweden, has entirely revised the list of Sweden scientists and the credit for its accuracy is due to him.

The following persons have been of much assistance in furnishing names and corrections for their respective countries:—

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All changes of address should be reported to the editor, Boston, Mass., for future editions.

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### ABBREVIATIONS.

Acad., Academy. Agric., Agriculture. Ala., Alabama. Am., American. Anat., Anatomy. Analyt., Analytical. Anth., Anthropology. Antiq., Antiquities. Arach., Arachinda. Arch., Archæology. Ariz., Arizona. Ark., Arkansas. Ast., Astronomy. Asst., Assistant. Biol., Biology. Bot., Botany. Bryol., Bryology. C., Collection. Calif., California. Carab., Carabidæ. Carb., Carboniferous. Ceramb., Cerambycidæ. Chem., Chemistry. Cicind., Cicindelidæ. Cin., Cincinnati. Colo., Colorado. Coleopt., Coleoptera. Coll., College. Comp., Comparative. Con., Conchology. Conn., Connecticut. Crypt., Cryptogamic. Crystall., Crystallography. Cur., Curator. Cust., Custodian. Dak., Dakota. D. C., District of Columbia. Del., Delaware. Dept., Department. Devon., Devonian. Dipt., Diptera. Dir., Director.

Dist., Distribution. E. E., Electrical Engineer. Econ., Economic. Elect., Electricity. Emb., Embryology. Ent., Entomology. Esp., Especially. Eth., Ethnology. Ethnog., Ethnography. Ex., Exchange. Fla., Florida. Ga, Georgia. Gen., General. Geog., Geographical. Geol., Geology. Held., Helderberg. Hemipt., Hemiptera. Herpetol., Herpetology. Histol., Histology. Hist., History. Hort., Horticulture. Hymenopt., Hymenoptera. Ia., Iowa. Ichth., Ichthyology. Ill., Illinois. Ind., Indiana. Invert., Invertebrates. Inorg., Inorganic. Inst., Institute. Kan., Kansas. Ky., Kentucky. L., Lower. La., Louisiana. L. & F. W., L. and Fresh Water. Lepid., Lepidoptera. Lithol., Lithology. M., Marine. Mam., Mammalogy. Mass., Massachusetts. Math., Mathematics. Md., Maryland. Me., Maine.

M. E., Mining Engineer. Med., Medical. Meteo., Meteorology. Metall., Metallurgy. Mic., Microscopy. Mich., Michigan. Min., Mineralogy. Minn., Minnesota. Miss., Mississippi. Mo., Missouri. Moll., Molluscs. Mont., Montana. Mus., Museum. Nat. Hist., Natural History. N. C., North Carolina. Neb., Nebraska. Neuropt., Neuroptera. Nev., Nevada.
N. H., New Hampshire.
Niag., Niagara.
N. J., New Jersey. N. M., New Mexico. N. Y., New York. O., Ohio. Obs., Observatory. Ool., Oology. Ophthal., Ophthalmology. Ore., Oregon. Org., Organic. Orn., Ornithology. Orthopt., Orthoptera. Osteol., Osteology. Palæo., Palæontology. Pathol., Pathological. Penn., Pennsylvania. Phæn., Phænogamic.

Philol., Philology. Phil., Philosophy. Photog., Photography. Phys., Physics. Piscol., Piscology. Pres., President.
Prof., Professor.
R. I., Rhode Island.
S. C., South Carolina. S. D., South Dakota. Sec., Secretary. Sci., Science. Sil., Silurian. So., Southern. Soc., Society. Spec., Species. Spec., Specimens or specialty. Strat., Stratigraphical.
Surv., Survey.
Syst., Systematic.
Tax., Taxidermy.
Tech., Technical, Technology.
Tenn., Tennessee.
Tex., Texas. U., Upper. Univ., University. Va., Virginia. Vasc., Vascular. Veg., Vegetable. Vert., Vertebrates. Vt., Vermont. Wis., Wisconsin.
W. T., Wyoming Territory.
W. Va., West Virginia.
Wash., Washington.

Zool., Zoology.

# NATURALIST'S DIRECTORY.

### UNITED STATES AND CANADA.

An asterisk (\*) indicates that parties have been heard from since issue of last Directory. Names followed by a question mark (?) have not been heard from for three years and will be dropped from next edition.

Aaron, Eugene M., Washington, D. C. Diurnal Lepid. Abbe, Chas. H., San Juan, Calif. Orn., Ool., Tax. C. Ex.\*

Abbe, Cleveland, LL.D., Prof. Weather Bureau, Dept. of Agric., Washington, D. C. Meteo.; Terrestrial Phys.; Ast.; Atmospheric Elect.; Standard Time; Aeronautics.; Solar Phys.; Sky Colors; Math. Phys.; Bibliog. of Meteo.\*

Abbe, Frank B., San Juan, San Benito Co., Calif. Min., Ool.,

Geol., Con. Crystall. C. Ex.\*

Abbot, Frank, M.D., Dean and Prof. Dental Surgery and Therapeutics, N. Y. Coll. of Dentistry, 22 West 40th St.,

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10 Aberdien, Dr. Robt., 3 Greenway Place, Syracuse, N. Y. Elect., Bacteriol.

Abert, S. T., Metropoliton Club, Cor. H and 17th Sts. Washington, D. C. Member Nat. Geog. Soc. and Phil. 11 Soc. Washington.\*

12

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16 Anth., Biol.

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- York, N. Y. Chem.\*
- Agard, A. H., M. D., 1259 Alice St., Oakland, Calif. 34
- Palwo., Geol., Min., Mic., Ent. C. Agard, Miss Sarah J., Teacher Latin and Sci., St. Cather 35 ine's School, 139 Pleasant Ave., St. Paul, Minn. Phæn. Plants. C. Ex.\*
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Armstrong, Chas. W., Canadian Inst., Toronto, Ont., Canada. Phæn. Bot., Ericaceæ, Filices. Ex.\* 162

Armstrong, Emmett, Chemist and Geologist, 200 N. 2d St., 163 Harrisburg, Pa. Strat. and Phys. Geol., Min., Lith., Inorg. Chem.

164 Armstrong, Frank B., Collecting Naturalist and Ornithol-

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167 Armstrong, Sarah A., 48 Prospect St., Norwich, Ct. Gen. Sci. C.

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Beals, Alfred T., Box 165, Greenfield, Mass. Bot., Phan. and Crypt. Plants, Ferns, Mosses. Hort. C. Ex.\*

405 Beam, William, M.D., Chemist, 715 Walnut St., Philadelphia, Pa. Chem.\*

Bean, Tarleton H., M.D., M.S., Ichthyologist, Curator, Dept. of Fishes, U.S. Nat. Mus., U.S.Fish Comm., 406 Smithsonian Inst., Washington, D.C. Ichth; Alaskan, Arctic and Deep Sea Fishes.

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419

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Bechtel, Justus, 1457 White St., Dubuque. Ia. Palceo.? 423

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Beecher, Charles E., Yale Univ. Museum, New Haven, Ct. Invert. Palæo.\*

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Bell, Chas. N., F.R G.S., Ex-Pres. Hist. and Sci Soc., 447 Winnipeg, Manitoba. Arch., Palco. History, N. W. Canada.\*

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Bemies, J. Otis, P. O. Box 132, Springfield, Mass. Arch.\* 454 Bendire, Charles E., Nat. Museum, Washington, D.C. Orn., Ool?

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Bergen, Mrs. Fanny, 17 Arlington St., No. Cambridge, Mass. Folk-medicine, American folk-lore and common 474 American plant-names.\*

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Berger, Henry, F.R.M.S., University Place, Observatory

Hill, Allegheny, Pa. Ast., Mic, Photog. Ex.\* Berger, Martin Luther. D.D. Prof. of Nat. and Mental Sci., 477 1380 Euclid Ave., Cleveland, Ohio. Min., Meteo., Ast., Ent., Moll. C. Ex.\*

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Berlin, A. F., Editor of "The Archaeologist," Allentown,

Pa. Arch. C.\*

Berliner, E., Columbia Road, betw. 14th and 15th Sts., 484

Washington, D.C. Phys.\*

Bernays, Augustus C., A.M., M.D., M.R.C.S., Eng., F.R. 485 M.S., Lond., Prof. Anat. College of Phys. and Surg., 903 Olive St., St. Louis, Mo. Mic., Zool., Morphol., Emb., Vert. Anat., Herpetol., Ichth., Osteol., Histol. C. Ex.?

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- Bigelow, Robert P., Ph. D., Instructor in Biol., Mass. Inst. 508 of Tech., Boston, Mass. Morph.
- 509 Bigelow, Robert Payne, 1501 18th St., N.W. Washington,
- D.C. Zool.
  Biggs, Hermann M., M.D., 5 West 58th St., New York, 510 N.Y. Bacteriol., Palæo.
- Bigney, Andrew J., A.M., Johns Hopkins Univ., Baltimore, 511 Md. Bot . Geol., Mic., Photog., Zool., Gen. Biol., Emb., Orn , Histol , Ent.\*
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546 Gen. Biol., Bacteriol., Path., Histol.\*

Blaisdell, F. E., M.D., Mokelumpe Hill, Calaveras Co., 547 Calif. Bot., Ent . Coleopt., Osteol., C.\*

Blake, Chas. A., 522 Cooper St., Camden, N.J. Ent: Lepid. 548

Blake, Clarence J., M.D. Prof. Otology, Harvard Med. Sch., 226 Marlborough St., Boston, Mass. Acoustics, 549 Otology.

550 Blake, Eli W., Prof. Physics, Brown Univ., Providence, R.

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Blake, Wm. P., Mill Rock, New Haven, Ct. Geol., Min., 554 Mining. C.\*
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Ex.\*

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Blauvelt, Wm. Hutton, E.M., Anaconda Mining Co., Anaconda, Mont. Min., Inorg. Chem., Metall.\* 567

568 Bleile. A. M., Prof. Physiol. Ohio State Univ., Columbus, O. Gen. Biol., Histol. 569

Bliss, H. D., M.D., 23 Halsey St., Brooklyn, N.Y. Micro-

scopic Pathol \*

Bliss, H. H., 715 H St., Washington, D.C., Member Anth. Society of Washington. 570

Bliss, Richard, Redwood Library, Newport, R.I. 571 Cartog., Bibliog.\*

Bliven, George F., M.D., Box 1576, Providence, R.I. Photog., Ast. C. Ex. Blochman, Lucien A., San Diego, Calif. Min.. Elect. 573

574 Blodgett, Frederick H., 1237 Mass. Ave., N.W., Washing-

ton, D.C. Bot., Ferns, Mic. C. of Ferns.\* Blodgett, Herbert T., Mt. Pleasant, Mich. Bot: Phæn. Plants, Chem., Phys., Mic., Zool.\* 575

Blodgett, Hiram A., Middleburgh, Schoharie Co., N.Y. Bot: Phan. and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Hort., Geol., Min., Phys., Elect., Mic., Photog., Meteo., Ast., Zool., Eth., Ethnog., Orn, Ool, Tax., 576 Ent: Hymen., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach., Myriop. C. Ex.

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580 Boalt, E. E., C.E., Asst. City Engr., City Hall, Cleveland, O. Phys. Geol., Phys.\*

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- 591 toms, Chem., Mic., Photog. C.\*
- 592 Bogert, Marston T., Box 180, Flushing, Queens Co., N.Y. Chem.\*
- 593 Bogue, Ernest E., P. O. address, Orwell, Ashtabula Co., Ohio. Bot., Phan. and Crypt. Plants, Ferns, Lichens, Alga, Hort., Geol. C. Ex.\*
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Bot., Nat. Hist., Floriculture.

Boring, C. O., Market and Monroe Sts., Chicago, Ill. Fun-614 gi, Fibres \*

Borrow, E. B., J.P., Collingwood. Ont., Can. Geol., Geog.? 615 Borst, Prof. Chas. A. R., A.M., Ph.D., Astronomer, Clinton, Oneida Co., N.Y. Math., Phys., Ast.\* 616

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620 Bostwick, Arthur E., Ph.D., 182 Mountain Ave., Montclair,

N.J. Physics \*

621 Bothe, Aug. C., A.B., St. Paul Park, Washington Co., Minn. Chem., Phys., Zool.

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1495 Dewey, Lyster H., Asst. Bot., U.S. Dept. Agric., Washington, D.C. Bot: Phan. Plants, Graminea.\*

1496 Dexter, S. Frank, Pawtucket, R.I. Orn. C.\*

1497 Dickel, George, Louisville, Ky. Breeder of Pheasants. Lepid. C.\*

1498 Dickinson, Dr. E. E., Fairport, Monroe Co., N.Y.; in winter, Nassau, N.P., Bahamas. Bot., Min., Elect., Anat, Osteol. C. Ex.

1499 Dickinson, Prof. John, University P.O., Los Angeles, Calif. Min, Phys., Gen. Biol. C.?

1500 Dickinson, John W., Jr., Holyoke, Mass. Arch., Ool. Ex. for Northern Species.

1501 Dickinson, Wm., A.M., M.D., 1322 Olive St., St. Louis, Mo. Bibliog., Ethnol., Philol., Numis.\*

1502 Dickinson, W. N., Jr., Elect. Eng., 357 St. James Ave., Springfield, Mass. Elect.\*
 1503 Dickinson, Mrs. W. P., 608½ Nicollet Ave., Minneapolis, Min.

Bot., Palæo. C.\*

1504 Dickman, R. M., 71 Atwater Bldg., Cleveland, Ohio. Strat. Geol, Min., Crystall., Lithol., Inorg. Chem., Metall. Ex.\*
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of History and Science, Scranton, Pa.\*

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opt. C. Ex.\*

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Ent., Zool. C.\*

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1514 D'Invilliers, E. V., Geol. and Min. Eng., 711 Walnut St., Philadelphia, Pa. Strat. Geol., Min., Lith., Metall.\*

1515 Dionne, C. E., Cur. du Mus., Zool. de l'Univ., Laval, Que-

bec, Can. Zool. C. Ex.\*

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1517 Disbrow, Wm. S., M.D., Ph.G., 126 Orchard St., Newark, N.

J. Bot., Min., Lith. C.\*

1518 Dixon, Samuel G., M.D., Prof. Bacteriol., Microscopic Tech. and Histol., The Acad. Nat. Sci., Philadelphia, Pa. (Late Prof. Hygiene, Univ. of Pa.)\*

1519 Dixwell, John, A.B., M.D. (Harv.), Mass. Med. Soc., etc. 52 W. Cedar St., Boston, Mass. Osteol., Zool. C. Ex.\*

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Plants, Ferns. C. Ex.\*

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Econ. Bot. in relation to Textile Plants.\*

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lis, Minn. Min, Chem., Metall., Crystall.\*
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1530 Dedge, S. C., Chattanooga, Tenn. Chem., Elect., Bot. C.\*

1581 Dodson, Truman M., Jr., Market St., Bethlehem, Pa. Elect., Photog., Ool. C. Ex.\*

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- col., Bellevue Hosp. Med. College, N.Y., Prof. Chem., Am. Veterinary College, N.Y., New York, N.Y. Chem.\*

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- 1551 Douglas, I., M.D., DD.S., Romeo, Mich. Bot., Geol., Min., Mic., Histol. C.\*
- 1552 Douglas, James, Metallurgist. Office 99 St. John St., New York, N.Y. Inorg. Chem., Meteo.\*
- 1553 Douglas, John M., Jr., Attorney at law, Middletown, Conn. Metall., Phys., Ent. C.\*
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- 1584 Dumble, E. T., State Geologist, Austin, Tex. Geol. C. Ex.\* 1585 Dumler, Chas., Congress St., Houston, Texas. Ent., Ool.
- 1586 Dumond, A. M., 70 Mount Hope Ave., Rochester, N. Y. Mic.\*
- 1587 Duncanson, Henry B., Prof. of Nat. Hist. in Neb. State Normal School, Lincoln, Nebraska. Bot., Chem. C. Ex.\*
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1591 Dunn, Gano S., 60 W. 73 St., New York City. Geol., Phys., Elect.

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Can. Math \*

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Washington, D.C. Geol., Lithol.
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1613 Eakins, L. Grant, B.S., care Colo. Fruit Co., Denver, Colo. Min., Inorg. Chem., Meteo.\*

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- 1697 Ellsworth, E. W., East Windsor Hill, Ct. Ool, Arch.\*
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1939 Frev, Fred, Taxidermist, 436 Decatur St., Sandusky, Ohio, Palæo., Geol., Zool, Arch., Orn., Tax. C. Ex.\*

1940 Friant, Geo. P. 102 Washington Ave., Scranton, Pa. Tax.

1941 Frick, Jno. H., A.M., Prof. Nat. Sci., Central Wesleyan Coll., Warrenton, Mo. Geol., Bot. C. Ex.\*

1942 Friday. Frederick, Fetterman, Alleghany Co., Pa. C. Ex. Desires especially Papilios \* Lepid.

1943 Fries, George W., B.P., Friendship, N.Y. Mic. C. Ex. 1944 Fries, J. A., Asst. Chemist, Agr. Expr. Station, State Coll.,

Centre Co., Pa. Org and Inorg. Chem.\*
1945 Frisbie, Dr. J. F., Newton, Mass. Geol., Arch.\*

1946 Frisby, Prof. Edgar, U.S. Naval Observ., Washington, D.C.\* 1947 Fritts, Chas. E., Electrician, 42 Nassau St., New York City.

Elect., Phys., Chem., Photog., Metall.

1948 Froehling, Dr. Henry, Analyt. Chem., 17 S.12th St., Richmond, Va., and Warners, Onondaga Co., N.Y. Mic., Chem., Min. C.
1949 Frohock, Roscoe, Malden, Mass. Crypt. Bot. C. Ex.?

1950 Frossard, Prof. Ed., 108 East 14th St., New York, N.Y.

Numis., Arch. Collection of Coins. Ex.\*
1951 Frost, Edwin B., Hanover, N.H. Phys., Ast.\*
1952 Frost, William D., Asst. on Bot. Survey of Minn., Univ. of Minn., Minneapolis, Minn. Lichens, Algæ.

1953 Frost, Mrs. W. D., Unadilla Forks, N.Y., via Utica. C. Ex.\*

1954 Frv. Howard J., 908 E. Genesee St., Syracuse, N.Y. Mosses. Fungi, Lichens, Alga, Foreign and Domestic Stamps. C.

1955 Fry, T. Marshall, Conchologist, 908 E. Genesee St., Syracuse, N.Y. Con., Bot., Palwo., Min., Moll. L. and F. W. Shells desired from all parts of the world. C. Ex.\*

1955a Fuchs, Chas., 212 Kearny St., San Francisco, Calif. Coleopt. U.S. of America and Mexico. Ex. and purchase.\*

1956 Fuelling, John L., Dept. of Agric., Washington, D.C. Chem.\*

1956a Fuller, Arthur A., M.E., Columbia, Mo. Physics, Elect., Ast.?

1957 Fuller, A. S., Ridgewood, N.J. Floriculture, Phæn. Bot., Coleopt. C. Ex.\*

1958 Fuller, Mrs. C. E., Needham, Mass. Bot., Ent., Orn.\*

1959 Fuller, Chas. G., M.D., F.R.MS., 39 Central Music Hall, Chicago, Ill. Bacteriol.. Hist., Mic. C. Ex.\* 1960 Fuller, Charles H., Bloomfield, Essex Co., N.J. Phan. Bot.

C. Ex.\*

1961 Fuller, F. Wesley, West Quincy, Mass. Geol., Min., Photog., Tax. C. Ex. Granite Spec. for ex.\*
 1962 Fuller, Geo. A., M.D., 5 Houghton St., Worcester, Mass.

Min., Land Moll. C. Ex.\*

1963 Fuller, G. W., Mass. State Board of Health, Lawrence Expr. Station, Lawrence, Mass. Bacteriol., Chem.\*

1964 Fuller, Homer T., Pres. and Prof. of Geol., Worcester Polytechnic School, 18 Boynton St., Worcester, Mass. Geol., Min., Metall. C. Ex.\*

1965 Fuller, J. E., P. O. Box 481, Mansfield, Mass. Ethnol., Orn., Ool., Tax., Lepid. C. Ex. Postage Stamps for eggs or minerals.

1966 Fuller, L. A., Supt. Pacific Ex. Co., 1829 Rutger St., St. Louis, Mo. Palæo. C.?

1967 Fuller, T. O., Needham, Norfolk Co., Mass. Gen. Bot. Orn., Ool.\*

1968 Fulmer, Elton, M. A., P.O. Box 372, Lincoln, Nebraska. Min., Crystall., Lithol., Inorg. Chem., Metall. C. Ex.\*

- 1969 Fultz, F. M., Burlington, Iowa. Palæo., Invert., Orn. Ex.\*
- 1970 Furness, H. B., 20 Locust St., Walnut Hills, Cincinnati, Ohio. Chem., Min., Metall., Phys.
- 1971 Fyles, Rev. T. W., South Quebec, Canada. Ent., Lepid.? 1972 Gabriel, R., Milford Centre, Ohio. Lenses and Astronomical Objectives. Desires books and papers on Optics, Ast. and Mic.\*
- 1973 Gaffield, Thomas, 54 Allen St., Boston, Mass. Chem., Phys., Glass making.\*
- 1974 Gage, Simon H., B.S., Associate Prof. of Phys., Cornell Univ., Ithaca, N.Y. Morphol. and Physiol. of Vert.\*
- 1975 Gage, Susanna, S.P., Ph.B., Ithaca, N.Y. Morphol., Phy-
- 1976 Gaines, J. T., 722 E. Broadway, Louisville, Ky. Palæo. C. Ex.
- 1977 Gaines, Marshall R., Prin. Whitin Hall School, Santa Fe,
   New Mexico. Min., Geol., Crystall., Am. Arch. Ex.
   1978 Gaines, Richard H., Chemist, Virginia Dept. of Agric., Rich-
- mond, Va. Analyt. Chem.\*
- 1979 Galen, James, Bethesda, Lancaster Co., Pa. Bot., Geol., Min., Orn., Ool., Emb., Arch., Con., Philately, Numis.; Chem. Collects seeds, plants, etc. for Nurserymen and others. C. Ex.\*
- 1980 Gallagher, William C., Ross, Lake Co., Ind. Ent. C.\* 1981 Gallaher, Frank M., Santa Barbara, Calif. Bot., Hort., Geol., Meteo.\*
- 1982 Galloway, B. T., U.S. Dept. of Agric., Washington, D.C., Chief of the Division of Veg. Pathol. Mycol.\*
- 1983 Gane, Henry S., Johns Hopkins Univ., Baltimore, Md. Palœo., Min. C. Ex. Will ex. Tertiary Fossils for old Geolog. Reports.\*
- 1984 Gannaway, Chas. B., Chemist and Mineralogist, 520 Garrison Ave., Fort Smith, Arkansas. Min., Crystall., Lithol., Chem., Metall., Mic., Photog. C. Min.\*
- 1985 Gannett, Henry, S.B., A. Met. B., U.S. Geol. Survey, Wash-
- ington, D.C. Geography.? 1986 Ganong, Wm. F., Harvard Univ., Cambridge, Mass. Bot., Phæn. Plants, Gen. Biol., Geog. Dist., Morphol.\*
- 1987 Garderga, J. T. M., M.D., A.M., Claymont P. O., Del. C. Ex.
- 1988 Gardiner, F., Jr., A.B., Sioux Falls, Dakota. Ent., Ichth., Emb.
- 1999 Gardiner, James T., Mining Engineer, 21 Elk St., Albany, N.Y.\*
- 1990 Gardiner, Prof. John, B.Sc. (London), Boulder, Colo., Prof.
- Biol., State Univ. of Colo. Zool., Emb., Invert. Histol. C.\* 1991 Gardiner, Walter, M.A., F.R.S., F.L.S., Fellow of Class Coll., Camb. Univ., Lecturer in Bot., Botanical Lab., Cambridge. Bot: Phæn and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Hort., Bibliog., Gen. Biol.

1992 Gardinier, Hardie, Ames, N.Y. Bot., Arch. C. Ex.\* 1993 Gardner, A.H., P. O. Box, 84, Fort Hamilton, N.Y. Conz L. & F. W. Shells of the U.S.A. C. Ex.\*

1994 Gardner, Rev. Corliss B., 8 New York St., Rochester, N.Y. Phys., Elect., Economies.\*

1985 Gardner, Edward G., Mass. Inst. Technol., 130 Mt. Vernon St., Boston, Mass. Emb., Anat. of Vert.
 1996 Gardner, Frank P., 14 Grand St., Haverbill, Mass. Min.,

Ool., Ent. C. Ex. 1997 Gardner, Robert W., 210 E. 16th St., New York, N.Y. Bot: Phæn. Plants.

1998 Garlock, F. R., M.D., Racine, Wis. Mic., Anat. C.?

1999 Garman, H., Prof. Zool. and Ent. State Coll. of Ky. Entomologist and Botanist Ky. Agric. Expr. Station, Lexing-Biol., Emb., Comp. Anat., Ent.\*

2000 Garman, Samuel, care Mus. Comp. Zool., Cambridge, Mass.

Herpetol., Ichth.

2001 Garratt, Allan V., Elect., Eng., Front and A. Sts., Portland, Oregon. Chem., Physics, Elect.

2002 Garrels, Wm. Louis, 4525 Pine St., St. Louis, Mo. Numismatics.\*

2003 Garret, C. H., 221 East Main St., Kalamazoo, Mich. Min.

C. Ex. Postage Stamp Collector.\*

2004 Garret, Harry, Taxidermist, 36 East Miner St., West Chester, Chester Co., Pa. Min., Mic., Orn., Tax. Dealer in Minerals. Have thousands of duplicates for sale or exchange. C. Ex. Correspondence desired.

2005 Garret, Philip C., Logan P.O., Phila., Pa. Geol. 2006 Garrett, Albert, 1425 Kentucky St., Lawrence, Kan. Bot.,

2007 Garrison, H. D., 3625 Vincennes Ave., Prof. Chem., Chicago, Ill. Chem., Toxicol., Photog., Biol. C.?

2008 Garrison, J. B., M.D., 111 East 70th St., New York, N.Y.

Elect., Anat. 2009 Graver, M. M., Asst. Prof., Pa. State Coll., Dept. of Phys. and Elect. Engineering, State College, Centre Co., Pa. Magnetism, Taxation.\*

2010 Gascoyne, Dr. Wm. J., Analyt. and Consulting Chemist, 36 S. Holliday St.. Baltimore, Md. Geol., Min., Chem., Metall.,

Mic., Photog. C. Ex.\*

2011 Gaskin, Helena C., Normal Coll., 69th St. and 4th Ave., New York City. Bot.

2012 Gastman, E. A., Supt. City Schools, Decatur, Ill. Ent.,

Orn. C. Ex. Can furnish live crayfish.\*

2013 Gates, Jacob, Provo, Utah. Bot., Ferns., Geol., Chem., Ast.?
 2014 Gatschet, Albert S., Bureau of Eth., Washington, D.C. Anth., Indian Linguist., Arch., Eth.\*

2015 Gattinger, A., M.D., Nashville, Tenn. Bot: Phan. and Crypt.

Plants, Phys. Geol., Anth.\*

2016 Gaul, Charles F., Snediker Ave., near Belmont, Brooklyn, N.Y. Gen. Biol., Vert. Anat., Geol. C.

2017 Gaul, Dr. R. C., 119 So. 4th St., Reading, Pa. Min. C.? 2018 Gault, B. T., Glen Ellyn, Dupage Co., Ill. Orn., Ool., Tax. C.\*

2019 Gay, Dr. Fred A., 323 Westminster St., Moulton Building,

Providence, R.I. Min. C.\* 2020 Gaylord, Mrs. E. P., 34 High St., Detroit, Mich. Cypraeidæ.?

2021 Geddes, Capt. Gamble, 162 Bernard Ave., Toronto, Can. General Ent. Species from Ont. and Quebec in ex. for those of other N.A. localities. Diurnals from the Rocky

Mts. a specialty.

2022 Gehret, George, 647 Mulberry St., Reading, Berks Co., Pa. Desires minerals from all parts of the world. Can offer minerals from Penn, and Africa in cabinet and museum specimens. Correspondence desired. Would like to ex. Min. for a small Printing Press. Min., Ool., Tax., Ent., Lepid. C. Ex.\*

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2024 Gehrmann, Adolph, M.D., 235 State St., Chicago, Ill. Bacteriol., Pathol. C. Ex.

2025 Geiger, H. R., Springfield, Ohio. Geol., Chem.\*

2026 Geisler, Joseph Frank, Ph.C., F.C.S., Analyt. and Consulting Chemist, Mercantile Exchange Bld'g, cor. Hudson and Harrison Sts., New York, N.Y. Phæn. Bot., Lithol., Chem.\*

2027 Genth, Prof. Fred A., Jr., Philadelphia, Pa. Chem., Min.

C. Ex.\*

2028 Gentry, Thomas G., U.S.Grant Boys' Grammar School, N.E. corner 17th and Pine Sts.; Residence 2020 N. 18th St., Philadelphia, Pa. Orn., Ool., Mosses, Fungi. C. Ex.\*

2029 George, F. W., Williamstown, Iowa. Inorg. Chem., Zool., Orn.\*

2030 George, James N., 37 Pearl St., Boston, Mass. Elect.\*

2031 Georgeson, Chas. C., M. Sc., Prof. Agric., Kansas State Agric. Coll., Manhattan, Kansas.\*

2032 Georgii, Max, L.L.M., C.E., 606 F. St., N.W., Washington. D.C. Chem., Metall., Physics, Elect., Photog., Anth., Eth., Ethnog., Philol.\*

2033 Gerard, Chas. B., Anderson, Ind. Arch. 2034 Gerard, W. R., 62 Clinton Place, New York, N.Y. Bot., Philol., Plant Names.\*

2035 Gerend, Jacob N., 704 8th St., Sheboygan, Wis. Orn., Ool. C. Ex.\*

2036 Gerend, John, Sheboygan, Wis. Orn., Ool., Lepid., Herpetol. C.\*

2037 Gerhard, Wm. J., 212 S. 12th St., Reading, Pa. Orn., Ool. C. Ex.

2038 Gernerd, J. M. M., Muncy, Lycoming Co., Pa. Arch., Con., Palæo. C.\*

2039 Gerrish, Frederic H., Prof. Anat., Bowdoin Coll., 675 Con-

gress St., Portland, Me. Anat.\*
2040 Gerry, A. M., Taxidermist, 2 Odd Fellows' Block, So. Paris, Me. Orn., Ool., Tax., Ichth., Mammals. C. Ex.

2041 Getchell, Ellen P.. Newburyport, Mass. Palæo., Min., Arch., Eth. C. Ex.\*
2042 Giauque, Florien, Attorney, 4th and Walnut Sts., Cincin-

nati, Ohio. Am. Arch.\*

2043 Gibb, Frank W., M.E., C.E., Little Rock, Arkansas.

Inorg. Chem., Metall. C. Ex.\* 2044 Gibbes, Heneage, M.D., F.R.M.S., (Lond.) Prof. of Path., Univ. of Mich., Ann Arbor, Mich. Mic., Bacteriol., Pathol., Histol.\*

2045 Gibbes, Prof. L. R., 38 Coming St., Charleston, S.C. Bot., Con. C. Ex.? 2046 Gibbs, Edwin A., M.D., 1608 13th St., N.W., Washington, D.

C. Mic., Biol. C. Ex.\* 2047 Gibbs, J. Stanley, M.D., Health Retreat, St. Helena, Calif. Geol., Orn., Ool., Tax. C.? 2048 Gibbs, J. Willard, Ph.D., Prof. Math. Phys., Yale Univ.

121 High St., New Haven, Ct.\* 2049 Gibbs, Morris, M.D., Kalamazoo, Mich. Zool., Anat., Mammals, Orn., Ool.. Herpetol, Ichth., Osteol., Lepid.\*

2050 Gibbs, William, Helena, Montana. Arch., Orn., Tax., Elect.,

Photog. C. Ex.\*

2051 Gibbs, Wolcott, Rumford Prof. Emeritus., Newport, R.I.

2052 Gibson, Chas. B., M.D., Prof. Inorg. Chem., Coll. of Physicians and Surgeons, Chicago, Ill.?

2053 Gibson, Charles D., Dover, Delaware. Philol.

2054 Gibson, Howard B., Chemist, Middletown, Ct. Org. Chem. 2055 Gifford, John C., Instructor in Bot., Swarthmore College. Mycol.\* Pa.

2056 Gifford, William E., 136 Liberty St., New York, N.Y.

Analyt. Chem.\*

2057 Gihon, Albert L., A.M., M.D., Med. Dir. U.S. Navy, United Service Club, 16 West 31st St., New York, N.Y. Gen. Biol., Anth.\*

2058 Gilbert, Mrs. A. C., San Antonio, Tex. Min.?

2059 Gilbert, A. J., 576, 34th St., Oakland, Calif. Palco., Geol., Min., Lithol. C. Ex.\*

2060 Gilbert, Benj. D., Clayville, N.Y. Ferns. C. Would con-

sider a foreign offer.

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Min. C. Ex.\* 2063 Gilbert, E. C., 576 34th St., Oakland, Calif. Nat. Hist., Stamps, Coins, Specimens in general. C. Ex.\*

- 2064 Gilbert, Mrs. E. J. C., Univ. of California, Berkeley, Calif. Bot: Phæn. Plants, Ferns. C. Ex.
- Gilbert, Frank N., 576 34th St., Oakland, Calif. 2065 Ooi., Stamps. C. Ex.\*
- 2066 Gilbert, Geo. H., Keene, N.H. Min., Spec. Marbles and Serpentines. C. Ex.\*
- 2067 Gilbert, G. K., U.S. Geol. Survey, Washington, D.C. Gen. Geol., Surface Geol.\* 2068 Gilbert, Harold, St. John, N.B., Can. Orn.
- 2069 Gilbert, Louise R., 318 West 8th St., Plainfield, N.J. Lepid. C. Ex.\*

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- Wellesley, Mass.\*
- 2071 Gilham, Kelsie M., 1122 Eighth St., Oakland, Calif. I have a collection of Indian Goods for sale. Prices given on application.\*
- 2072 Gill, Augustus H., S.B., Ph.D., Instructor in Gas Analysis, Mass. Inst. Tech., Boston, Mass. Bot., Org. and Inorg. Chem., Phys., Elect.\*
- 2073 Gill, John K., 141, 23rd St., Portland, Oregon. Eth., Philol., Aboriginal Am. Dialects, Geol.\*
- 2074 Gill, Theo. N., M.D., Ph.D., Smithsonian Inst., Washington, D.C. Gen. Zool., Mam., Ichth., Con. C.
- 2075 Gill, William L., 20 So. Prince St., Lancaster, Pa. Palæo. Geog., Ast.?
- 2076 Gillett, Edw., (Southwick Nurseries), Southwick, Mass. Cultivation of wild flowers. Collectors of and dealers in N. A. wild flowers, rare lilies, etc. Catalogues sent. Foreign correspondence solicited. C.\*
- 2077 Gillette, Clarence P., M.Sc., State Agr'l Coll., Fort Collins, Colo. Ent. Esp. desires Cynipidæ. C. Ex.\*
- 2078 Gillin, Thos. S., C.E., Ambler, Montgomery Co., Pa. Orn., Ool., Tax. C. Ex.
- 2079 Gilman, Daniel C., Pres. Johns Hopkins Univ., Baltimore, Md.\*
- 2080 Gilman, Henry A., M.D., Supt. Iowa Hospital for Insane, Mt. Pleasant, Iowa. Bot., Geol., Chem., Physics, Anat.\*
- 2081 Gilman, Wm. C., Newport, Orleans Co., Vt. Geol., Arch., Palæo., Min., Numis.\*
- 2082 Gilman, Winfield W., Stoughton, Wis. Orn., Ool., Tax. C. Ex.\*
- 2083 Gilson, F. H., 54 Stanhope St., Boston, Mass. Bot. C.
- 2084 Gilson, George F., Pleasanton, Alameda Co., Calif. Arch.
  C. Rare Books, Coins and Indian Relics.\*
- 2085 Gilson, J. C., Prin. Normal School, Hamilton Hall, Oakland, Alameda Co., Calif. Min. C.\*
- 2086 Girling, Robt. N., Chemist, cor. Prytania and Washington Ave., New Orleans, La. Bot., Hort., Agric., Org. and
- Inorg. Chem., Mic., Photog., Min. C.? 2087 Giroux, N. Julien, C.E., P.L.S., Geol. Survey, Ottawa, Ont., Can. Strat. Geol.\*

- 2088 Gisborne, Hartley, M.S.C.E., M.I.E.E., District Supt. Govt. Tel. and Signal Service, Canada; Electrician, Oú Appelle Station, Can.\*
- 2089 Gissler, Carl F., Ph.D., M.D., 23 Kossuth Place, near Him-rod St., Brooklyn, N.Y. Biol.\*
- 2090 Gissler, Edwin F., 23 Kossuth Place, Brooklyn, N.Y. Elect.\* 2091 Glaser, Louis A., New Brighton, Beaver Co., Pa. Ent: Specialty Lepid.; Min., Ool., Lepid of western Pa. for exchange. C.\*
- 2092 Glasgow, Frank A., A.B., M.D., Prof. of Clinical Gynæcology, St. Louis Med. College, Gynæcologist to St. Louis Mullauphy Hospital, 3016 Glasgow Place, St. Louis, Mo. Med. Surgery, Gynecic., Elect-med.\*
- 2093 Glazebrook, Otis Allen, D.D., Elizabeth, N.J. Phys., Geol., Arch., Histol.\*
- 2094 Gleason, Chas. S., Box 433. Seattle, Washington. Arch., Eth., Ethnog., Philol. C. Ex. 2095 Gleason, E. B., Elmira, N.Y. Nat. Hist.
- 2096 Gleason, Herbert, 51 Commercial St., Boston, Mass. Geol. 2097 Gleason, Rev. H. W., Minneapolis, Minn. Bot., Min., Orn.\*
- 2098 Gluck, Lee, M.E., Asst. Geol. Survey Missouri, Jefferson City, Mo.
- 2099 Gochenour, Wm., Forreston, Ogle Co., Ill. Phæn, Bot. and Ferns. C. Ex.
- 2100 Godar, John Ed., Lock box 212, Connersville, Ind. Numis., Con., Philately.\*
- 2101 Godbe, Sam'l T., M.E., 1165 S. 9th East St., Salt Lake City, Utah. Phys. and Strat. Geol., Min., Crystall., Lith., Inorg. Chem., Metall., Ast.\*
- 2102 Godbout, A. A., 318 Pr. Edward St., St. Rochs, Quebec, Can.
- Orn., Ool. C. Ex. 2103 Goddard, Chas., M.D., Harvard, Ill. Photo-Microg. 2104 Godfrey, Chas. C., M.D., Pres. of the Bridgeport Scientific Soc., 254 State St., Bridgeport, Fairfield Co., Ct.\*
- 2105 Goding, Frederic W., M.D., Ph.D., Rutland, Ill. Econ. Ent., Membracidæ, Cercopidæ Des res to purchase Membracidæ or ex, material in other orders for above. C. of Membracidæ and Cecropidæ correctly named. Published papers on same ex.\*
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- 2107 Goetz, Rev. Geo., Rochester, Beaver Co., Pa. Mic., Photog., Anth., Eth. C.\*
- 2108 Goff, Emmett S., Agric. Expr. Station, Univ. of Wisconsin,
- Madison, Wis. Hort., Ent.\* 2109 Gold. T. S., Sec. Conn. Board of Agric., West Cornwall, Ct. Bot., Hort., Min. C.\*
- 2110 Goldschmidt, S. A., A.M., E.M., Ph.D., Columbia Chemical Works, 43-51 Sedgewick St., Brooklyn, N.Y. Photog.\*

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2114 Gooch, F. A., Ph.D., Prof. Yale Univ., New Haven, Ct. Chem.

2115 Goodale, Mrs. Annie M., St. Joseph, Missouri. Coleopt. C. Ex.\*

2116 Goodale, Charles W., B.S., (Mass. Inst. Tech., class '75), Butte, Mont. Min., Chem., Metall.

2117 Goodale, Prof. George L., Cambridge, Mass. Bot. 2118 Goode, G. Brown, Ass't Sec. Smithsonian Institution; in charge U.S. National Museum, Washington, D.C. Geog. Dist., Ichth., Zool of the Deep Sea. History, Biography and Bibliography of American Science. Museum Administration. C. Ex.\*

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Physics, Elect. C.? 2120 Goodell, L. W., Pansy Park, Mass. Bot., Hort., Floricul-

ture, Ent.: Lepid., Photog. C.\* 2121 Goodenough, H. B., Bristol, Ct. Min. C. Ex. 2122 Goodfellow, Edward, Asst. U. S. Coast and Geodetic Survey, Washington, D.C.\*

2123 Goodhue, Chas. F., Webster, N.H. Orn., Lepid., Sphingidæ, Catocalæ. C. Ex.\*
2124 Goodhue, Fred E., Wilmot, Merrimack Co., N.H. Geol., Geol... Min., Crystall. C. Ex. 2125 Gooding, Arthur C., Rochester, Minn. Mic. C. Ex.\*

2126 Goodloe, Meade, Instructor of Assaving, Univ. of Ariz., Tuscon, Ariz. Inorg. Chem., Metall.\*
2127 Goodman, H. L., Ph. G., Missouri Med. Coll., St. Louis, Mo.

Min. C. Ex.

2128 Goodrich, John K., Waterbury, Conn. Bot: Phan. Plants. 2129 Goodrich, Mrs. L. Leonora, Pres. of Syracuse Bot. Club, 505 Willow St., Syracuse, N.Y. Phan. and Crypt. Plants. C. Ex.\*

2130 Goodrich, Wilbur F., C.E., 10 Gibbens St., Somerville, Mass. Con., Min., Fossils. C. Ex. Desires Helices, F. W. shells, crystals and fossils.\*

2131 Goodwillie, J. M., M.A., Vernon, Ont., Can. Arch., Geol., Palæo. C. Ex.
2132 Goodwin, A. C., A.M.. Ph.D., Prin. Goodwin's Acad., Owensboro', Ky. Geol., Palæo., Bot. C. Lower Sil. and Upper Helderberg fossils for ex. Wants only perfect fossils.\*

2133 Goodwin, E.J., M.D., Solitude, Ind. Phys.\*

2134 Goodwin, F. M., Hartland, Vt. Arch., Orn., Ool. C. Ex.

2135 Goodwin, W. L., D.Sc., F.R.S.C., Queen's Univ., Kingston,

Ont., Can. Chem.\*
2136 Goold, C. H. Morris, Ill. Palæo, Fossil Flora of Mazon
Creek, Grundy Co. C. Ex.

2137 Gorby, S. S., State Geologist, Indiana, Indianapolis, Ind.?

2138 Gorden, Wm. J., 51 Water St., Cleveland, Ohio.

2139 Gordinier, Hermon C., M.D., 89 Fourth St., Troy, N.Y.

Phan. Bot., Arch. Ex.\*

2140 Gordon, C. H., M.S., 465 Emerson St., Evanston, Ill. In-structor in Nat. Hist., Northwestern Univ. Palæo., Bot., Zool., Geol., Petrog., Invert. C. Ex. in Palæo.\*

2141 Gordon, J. C., Prof. Nat. Coll. for the Deaf, Kendall Green, Washington, D. C. Chem.
2142 Gordon, Margaret C., Mt. Carroll Sem., Mt. Carroll, Ill. Bot., Geol., Min., Zool. C.\*

2143 Gordon, T. Winslow, M.D., Georgetown, Brown Co., Ohio. Chem., Mic., Meteo., Gen. Biol.
 2144 Gordon, Mrs. W. L., Chelmsford, Mass. Geol., Min. C.

Ex.

2145 Gore, J. Howard, Prof. Math., Columbian Univ., Washington, D.C. Ceremonial Government and Geodesy.

2146 Gore, J. W., Prof. Phys., Univ. of N.C., Chapel Hill, N.C. Phys., Elect.

2147 Gorham, Frederick P., 236 Knight St., Providence, R.I.

Palæo., Enb., Ent. C.\*

2148 Gorman Martin W., 75 N. 14th St., Portland, Ore.

Phæn. and Crypt. Plants, Ferns, Mosses. C. Ex.\*

2149 Gorman, William C., Pulaski, Oswego Co., N.Y. Zool.

2150 Gorton, L. G., Agricultural College, Mich. Geol., Mic.,

Phys., Physiol. C. Ex. mic. slides.\*
2151 Gossard, Harry A., B.Sc. Asst. Ent., Iowa Expr. Station.

Ames, Iowa. Ent.

2152 Gottschalk, Chas. F. A., 634 No. Salina St., Syracuse, N.Y. Mic., Bot. C. Ex.\* 2153 Gould, Dr. B. A., Editor: "Astronomical Journal," Cam-

bridge, Mass. Ast. 2154 Gould, George M., M.D., 119 South Seventeenth St., Philadelphia, Pa. Psychol., Gen. Biol., Anth.\*
2155 Gould, H. W., M.D., D.S., San Diego, Calif. Palæo., Invert.,

Min. C. Ex. 2156 Gould, S. C., Manchester, N.H. Gen. Sci. Ex.\*

2157 Gould, Vernon, M.D., Rochester, Fulton Co., Ind. Geol., Gen. Biol. C. Ex.
 2158 Grady, John H., Natick, Mass. Ool., Min., Photog., Coins, Indian Relics, Curiosities. C. Will buy, sell or exchange.

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2159 Graef, Edw. L., 40 Court St., Brooklyn, N.Y. Lepid. C. Ex.\*

2160 Graf, L., Van Buren, Ark. Geol., Invert. Palæo. C. Ex.\*

2161 Graham, Albert A., Sec'y Ohio Arch. and Hist. Soc. Colum-

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- San Francisco Microscopical Society, Rooms 432 Montgomery St., Address Box 2244. E. J. Wickson, Pres.; A. H. Breckenfeld, Cor. Sec. Cabinet and Library.
- Santa Barbara Society of Natural History. Organized, Nov. 25, 1876. H. C. Ford, Pres.; Lorenzo G. Yates, Cor. Sec. Museum and Library. Publishes Bulletin.\*
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lishes Proceedings. C. Ex.\*

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erary and Scientific. Museum. Library. Publishes Transactions. Exchange. A. Alexander, F.S.Sc., Pres.; W. McG. Logan, B. A., Cor. Sec.; C. R. McCullough, Gen. Sec.\*

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Natural History Society, Montreal. Dr. T. Wesley Mills, Pres.; A. F. Winn, Cur. Publishes "Canadian Record of Science."\*

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American Ornithologists' Union. Incorporated, 1888. Elliot Coues, Washington, D. C., Pres.; Jno. H. Sage, Portland, Conn., Sec. Publishes "The Auk."\*

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Illinois State Fish Commission, Quincy, Ill. N. K. Fairbanks. Pres.; L. P. Bartlett, Sec. Publishes Biennial Reports.

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## IOWA.

Davenport Academy of Natural Sciences, Davenport. Organized, Dec. 14, 1867. Dr. W. L. Allen, Pres.; Prof. W. H. Barris, Cor. Sec. Library and Museum. Publishes "Proceedings."\* Iowa State Ornithological Society. J. H. Harvey, Pres.; S. S.

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Kansas City Academy of Science, Kansas City. Founded, Dec. 2, 1875. E. Butts, Pres.; R. B. Trouslot, Sec. Cabinet and Library. Publishes "Kansas City Scientist."

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American Academy of Arts and Sciences, Boston. Organized, 1780. Josiah Parsons Cooke, Pres.; Augustus Lowell, Vice-Pres.; Charles Loring Jackson, Cor. Sec.; Wm. Watson, Rec. Sec.; Elliot Channing Clarke, Treas.; Henry Williamson Haynes, Libr. Publishes "Proceedings" and "Memoirs."\*

American Association for the Advancement of Science. Organized, 1840; incorporated, Mar. 19, 1874. F. W. Putnam, Salem, Mass.

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Arnold Arboretum (Harvard Univ). Chas. S. Sargent, Director; Charles E. Faxon, Ass't in charge of Herbarium, Jamaica Plain, Mass.\*

Boston Society of Natural History. Incorporated, 1831. W. H. Niles, Pres.; Samuel Henshaw, Sec. Annual Meeting, first Wednesday of 'May. Library and Collection. Publishes "Proceedings," "Memoirs," and "Occasional Papers."\*

Boston Scientific Society, 419 Washington St. Organized, May, 1876. Dr. Frank Perrin, Pres.; Wm. D. Spier, Rec. Sec. "Sci-

ence Observer" published by this Society.\*

Brewster Ornithological Club, Worcester, Mass. Miss H. A. Ball,

Orn.\*

Cambridge Entomological Club. Established, Jan. 9, 1874; incorporated, March 9, 1877. W. H. Ashmead, Pres.; Roland Hayward, Sec. "Psyche," published by this Society, is issued monthly, at \$2 per annum, \$5 per vol. of 3 years.\*

Cape Ann Scientific and Literary Assoc., Gloucester. Organized,

1875. Thomas Conant, Pres.\*

Essex Institute, Salem. Incorporated, 1848. Rev. E. B. Wilson, Pres.; Henry M. Brooks, Sec. Library contains 60,000 volumes. Publishes "Historical Collections" and "Bulletin." Objects, diffusion of knowledge in History, Nat. Hist., Horticulture and Arts.\*

Harvard Natural History Society. Founded 1837. Cambridge, Mass. A. W. Weysse, Pres.; F. B. White, Cor. Sec. The Society especially desires to obtain floral, faunal and mineralogi-

cal lists for New England.\*

Lyceum Nat. Hist., Williams College, Williamstown. Founded,

1835. S. F. Clarke, Pres. Collection.\*

Massachusetts Horticultural Society, Boston. Organized 1829. Nathaniel T. Kidder, Pres.; Robert Manuing, Sec. and Lib.; Charles E. Richardson, Treas. and Supt. of building. The Library contains 6,700 books and 7,200 pamphlets on Botany, Horticulture, Agriculture, etc., and is the best Horticultural Library in the U. S.\*

Middlesex Institute, Malden. Organized, 1878. L. L. Dame, Med-

ford, Pres.; F. S. Collins, Malden, Sec.\*

Museum of Comparative Zoology, Cambridge. Alex. Agassiz, Director. Publishes "Bulletin" and "Memoirs."\*

Nat. Hist. Society of Newton. Chartered, 1873. Charles J. May-

nard, Pres.; A. R. Bailey, Sec.\*

Nuttall Ornithological Club, Cambridge. Organized 1873. Wm.

Brewster, Pres.; F. B. White, Sec.\*
Peabody Academy of Science, Salem. Founded, 1867, by George Peabody, of London, and contains Ethnological Coll. East India Marine Soc. (1799), Nat. Hist. Coll. Essex Inst. (1834) as permanent deposits, and large accessions made since 1867 by the trustees. Pubs. Memoirs (2 vols.) Annual reports (19 in 9 numbers). Classes and lectures in botany, zoology, mineralogy, etc. Wm. C. Endicott, Pres.; Edw. S. Morse, Dir.; John Robinson, Treas., in charge of Museum. Special collections, Ethnology in general, and Zool., Bot., Min., Geol. and Arch. of Essex County, Mass. Museum ranks among the most valuable in the country.\*

Peabody Mus. of Am. Archæology and Ethnology, department of Harvard Univ., Cambridge. Founded, 1866. F. W. Putnam, Peabody Prof. of Am. Arch. and Eth., Curator.\*

Ridgway Ornithological Club, H. B. Long, Sec. and Treas., 14 Anna St., Worcester, Mass. Geog. Dist., Orn., Ool., Emb., Tax.

and Osteol. as applied to Birds.\*
Worcester Natural History Society. Organized, Dec., 1852; incorporated, April 16, 1853. Dr. Merrick Bemis, Pres.; Dr. S. B. Woodward, Treas.; H. D. Braman, Sec. Museum.\*

#### MICHIGAN.

Adrian Scientific Society, Adrian. Incorporated, 1881. Chas. Raynor, Pres.; H. A. Lee, Vice-Pres.; Jacob Breedon, Treas.; Fred'k B. Stebbins, Sec.\*

Detroit Scientific Association. Incorporated, March 21, 1865. E. C.

Skinner, Pres.; Bryant Walker, Sec. Museum.\*

Michigan Teachers Soc'y of Microscopists. C. D. McLouth, Ypsilanti, Pres.; Geo. O. Voorhies, Ypsilanti, Sec.\*

The Griffith Club of Microscopy, Detroit. W. H. Brearley, Pres.; B. W. Chase, M.D., Sec.?

## MINNESOTA.

Minnesota Academy of Natural Sciences, Minneapolis. Organized, Jan. 4, 1873. Prof. H. L. Osborn, Pres.; C. S. Fellows, Cor. Sec. Location, Third floor of the Minn. Pub. Library B'l'd'g. Museum open daily. Publishes "Bulletin."\*

Minnesota Historical Society of St. Paul.\*

St. Paul Academy of Science. E. C. Mitchell, Pres.; L. B. Wilson, Cor. Sec.; C. B. Scott, Curator.\*

#### MISSOURI.

Academy of Science, St. Louis. Organized, 1857. Prof. H. S. Pritchett, Pres.; W. T. Porter, M.D., Cor. Sec. Publishes "Transactions" and "Proceedings." Has Room, Library and Museum in Wash. Univ. buildings.\* NEBRASKA:

Nebraska Academy of Sciences, Lincoln. Founded, Jan. 1, 1891. Pres, J. S. Kingsley, Sc.D.; Sec., W. E. Taylor. Publishes

"Transactions."?

## NEW HAMPSHIRE.

Exeter Natural History Society. Organized, Dec. 7, 1874; incorporated, June, 1876. Albion Burbank, Sec. Museum and Library.\*

Keene Natural History Society. G. A. Wheelock, Pres.; Charles

E. Burnap, Curator.\*

#### NEW JERSEY.

Newark Entomological Society, Turn Hall, William St. Meetings on the second Sunday of each month. C. P. Machesney, Pres.; J. B. Angelman, Vice-Pres.; E. A. Bischoff, Sec.; George Stortz, Treas.; Julius Bunsow, Lib. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach.\*

New Jersey State Microscopical Society. Instituted, April 17, 1871; incorporated, Feb. 16, 1880. Rev. Samuel Lockwood, Freehold, N. J., Pres.; Prof. Julius Nelson, New Brunswick, N. J., Sec. Meets monthly in Geological Hall, Rutgers College, New Brunswick.\*

Princeton Acad. of Sci., Princeton. Incorporated, Jan. 23, 1882.

Hon. Simon Elliot, Pres.; Jacob Miller, Cor. Sec.

Princeton Science Club. Organized 1877. Pres., Prof. C. A. Young. Prof. W. F. Magie, Sec.\*

Trenton Natural History Society. Austin C. Apgar, Pres.; Fred A. Lucas, Sec. Publishes Journal. Has Coll. and Library.\* NEW YORK.

Agassiz Association, Chapter 811, Nyack-on-Hudson. Organized in 1884, for the study of the various depts. of Nat. Sci. Meetings are held on the second and fourth Wed. evenings in each month, excepting July and August. G. D. Wilson, Pres.; Miss Emma Partridge, Sec.; J. C. Gregory, Cor. Sec.\*

Agassiz Association, Student's Chapter, 949 Z. Organized Feb. 1886. T. G. White, Pres.; R. C. McCaffrey. Cor. Sec. Meets on first and fifth Sat. evenings of each month at 49 W. 20th St., New York. N. Y. C. in Min. Geol., Bot. Ent. and Con.\*

Albany Institute. Incorporated, March 12, 1793. Leonard Kip, Pres.; Ernest J. Miller, Cor. Sec. Library, Collection.\*

American Chemical Society, University Building, Washington Sq., New York City. Incorporated, Nov. 10, 1877. H. W. Wiley, Washington, D. C., Pres.; A. C. Hale, Brooklyn, N. Y. Gen. Sec. Library. F. E. Dodge, Brooklyn, N. Y., Librarian.\*

American Geographical Society, 11 W. 29th St., New York City.\* American Institute of Mining Engineers. Henry M. Howe, Boston, Mass., Pres. (1893); Rossiter W. Raymond, 13 Burling

Slip, New York City, Sec.\*

American Microscopical Society of City of New York. T. H. Mc-Allister, Pres.; O. G. Mason, Sec., Bellevue Hospital, New

York City. Meetings at residences of members.\*

American Museum of Natural History, Central Park, New York City. Incorporated, 1869. Morris K. Jesup, President. Publishes "Bulletin" and "Annual Report." Library of 28,000 volumes and Museum.\*

American Postal Microscopical Club. Founded 1875. Prof. Samuel Lockwood, Freehold, N. J., Pres.; R. Halsted Ward, M.D.,

Troy, N. Y., Manager.\*

"Astronomical Department, Brooklyn Institute," (Formerly Am. Ast. Soc.) re-organized, 1888, Garrett P. Serviss, Pres.; James P. Hall, Sec. Meets first Monday in each month, Brooklyn Members 140.\*

Brooklyn Entomological Society, Dept. of Entomology of Brooklyn Institute. Richard F. Pearsall, Pres.; Prof. John B. Smith, Cor. Sec. Publishes "Entomologica Americana." Address, Brooklyn, N. Y. Meetings first Tuesday of each month, Brooklyn Institute, Brooklyn, N. Y.\*

Brooklyn Institute, The, Brooklyn, N. Y. Anth., Architecture, Ast., Bot., Chem., Min., Phys., Elect., Law, Mic., Photog., Meteo., Zool., Philol., Ent., Engineering, Fine Arts., Geog., Geol., Math., Mic., Music, Painting, Philol., Photog., Physics, Political and Economic Science, Physchol., Sculpture, Zool. C.\*

Buffalo Microscopical Club. Organized, 1876. F. Park Lewis, Pres.; James W. Ward, Grosvenor Library, Cor. Sec.; Louis A. Bull, Rec. Sec. and Treas. Meetings on the second Tues-

day of each month.\*

Buffalo Society of Natural Sciences. Organized, Dec. 3, 1861. Hon. David F. Day, Pres.; Dr. Wm. C. Barrett, Cor. Sec. Museum and Library.?

Canandaigua Scientific Soc., Dr. A. L. Beahan, Vice Pres.; K. M.

Hart, Sec., Canandaigua.\*

Central New York Microscopical Club, Syracuse. Incorporated May 28, 1883. A. Clifford Mercer, M.D., F.R.M.S., Pres.; Newton Hall, 2nd, Sec. Over 40 members.?

Central Park Menagerie, New York City. John W. Smith, Direc-

College of Archæology and Æsthetics of the City of New York. Incorporated, 1880. Hon. Amos K. Hadley, Chancellor; J. W. Henry Canoll, Vice-Chancellor and Dean. Monthly meetings for study of the Archæology of the Fine Arts. Dean's office 120 E. 105th St., New York.

Cornell Nat. Hist. Soc., Cornell Univ., Ithaca. E. J. Durand,

Geological Society of America, The. Prof. H. L. Fairchild, Sec.,

Rochester, N. Y.\*

Gray Memorial Botanical Chapter of the Agassiz Assoc. A corresponding Botanical Society organized, Dec. 1887. G. H. Hicks, Agric Coll. Mich., Pres.; E. L. Byington, M.A., Fort Collins, Colo., Sec'y. Official Organ, "The Ornithologist and Botanist."

Jamestown Microscopical Society. Organized, 1873. S. Winsor

Baker, Sec. and Treas.\*

Medical Society of New York. Pres., A. Walker Suiter, Herkimer; Vice-Pres., W. W. Crandall, Wellesley; Sec., F. C. Curtis, Albany; Treas., C. H. Porter, Albany. Annual meeting Feb. 2, 3, and 4 at Albany, N. Y.

Microscopical Society of Canandalgua. Rev. N. M. Calhoun, Pres.; Prof. E. H. Eaton, Vice-Pres.; Dr. Chas. T. Mitchell,

Sec. and Treas.\*

Natural Science Association of Staten Island, Organized, 1881. Incorporated, 1885. Active membership 40, Walter C. Kerr, Pres.; Arthur Hollick, Sec., New Brighton. Publishes "Pro-

ceedings."\*

New York Academy of Sciences (late Lyceum of Natural History), Columbia College, New York City. Incorporated, April 20, 1818. H. Carrington Bolton, Pres.; Capt. T. L. Casey, Cor. Sec. Annual meeting, fourth Monday in February. publications of the Academy consist of the "Annals" and the "Transactions."\*

New York Entomological Society. Meets in the American Mus. of Nat. Hist., 77th St. and Sth Ave., every first and third Wednesday of each month. Publishes a "Journal."\*

New York Microscopical Society, 64 Madison Ave., New York City. Organized, November 14, 1877. Charles S. Shultz, Pres.; Rev. J. L. Zabriskie, Cor. Sec., Waverley Ave., Flatbush, L. I., N. Y. Regular meetings on the first and third Fridays of each month, at 8 P. M.\*
Rochester Academy of Science. Prof. Hermon LeRoy Fairchild,

President: Prof. Charles Wright Dodge, Cor. Sec.\*

Torrey Botanical Club, New York City. Organized January, 1873. Addison Brown, Pres.; John K. Small, Cor. Sec. Publishes "Bulletin" and "Memoirs."\*

Troy Scientific Association. Organized, 1870; incorporated, 1874. R. Halsted Ward, M.D., Pres.; Geo. H. Ennis, Cor. Sec.\* Vassar Brothers' Institute. Scientific Section, Poughkeepsie. Rev. Wm. B. Hill, Pres.; Prof. Wm. B. Dwight, Curator of Mus.; Edward Burgess, Chairman Sci. Section.\*

Warner Observatory, Rochester. Lewis Swift, Ph.D., F.R.A.S.,

Director.\*

West Side Nat. Hist. Soc. of New York City, The. Meets 2nd and 4th Sundays of each month. Communications should be addressed to the President, Edmund B. Southwick, Ph.D., Arsenal B'l'd'g, 64th st. and 5th Ave., Central Park, N. Y. City.\*

# NORTH CAROLINA.

Elisha Mitchell Scientific Society, Chapel Hill. Library. Semiannual Journal, F. P. Venable, Sec.\*

Central Ohio Scientific Association, Urbana. Established, October, 1874. C. M. Mosgrove, Pres.; T. F. Moses, Cor. Sec.\* Cincinnati Society Natural History, 108 Broadway. Organized,

Jan. 19, 1870. Library and Museum, Members 230. Publishes Quarterly Journal. T. B. Collier, Pres.; T. H. Kelley, Sec.; Seth Hayes, Dir. of Mus.\*

Cuvier Club, 34 Longworth St., Cincinnati. Organized, Jan. 1, 1875. H. C. Cullbertson, Pres.; J. F. Blackburn, Sec. and

Treas.\*

Irisha Land-Wehr Verein, I. L. W. V. Hall, 115-117 W. 6th St.,

Cincinnati. Museum of War, Art and Nature.\*

Licking County Pioneer Historical and Antiquarian Society, Newark, Ohio. Isaac Smucker, Pres.; E. M. P. Brister, Cor. Sec.; James H. Smith, Custodian.\*

Literary and Scientific Society, Madisonville. Hon. Joseph Cox, Pres.; Dr. Charles L. Metz, Sec.\*

## PENNSYLVANIA.

Academy of Natural Sciences of Philadelphia. Founded, March 12, 1812. Gen. Isaac J. Wistar, Pres.; Dr. Benj. Sharp, Cor. Sec.; Edw. J. Nolan, M.D., Rec. Sec. Publishes "Proceedings" and "Journal."\* Academy of Science and Art of Pittsburg. Founded, 1889; incorporated, 1890. John A. Brashear, Pres.; Geo. H. Clapp, Sec. Publishes "Proceedings."\*

American Entomological Society, Philadelphia. Incorporated. 1862. Horace Jayne, M.D., Cor. Sec. Publishes "Transac-

tions."

American Philosophical Society, Philadelphia. Founded, May 25, 1743. Frederick Fraley, Pres.; Dan. G. Brinton, Henry Phillips, Jr., George H. Horn, Geo. F. Barker, Secretaries. Publishes, "Proceedings" and "Transactions."\*
Botanical Society of Western Pennsylvania. Founded 1886; Incor-

porated, 1890. Prof. G. Guttenberg, Pres.; Prof. J. G. Ogden,

Sec. Herbarium.\*

Chester County Acad. of Arts and Sciences. Prof. G. M. Phillips,

Pres.; Samuel Marshall, Sec.\*

Engineers' Society of Western Pennsylvania. W. L. Scaife, Pres.; S. M. Wickersham, Sec. Publishes "Proceedings."

Erie Natural History Society, Erie. Ottoman Jarecke, Pres.; Miss

Rosina Hoyt, Cor. Sec.

Iron City Microscopical Society. Founded, 1880. Geo. H. Clapp, Pres.; J. F. Henirici, Sec. Numbers 90 members and is one of the largest Societies of the kind in the U.S.

Lackawanna Institute of History and Science, Scranton, Pa. J. A. Price, Pres.; J. H. Fisher, Sec. C. Ex. Coal fossils to ex.

for min. specimens.?

Lewisburg (Pa.) Scientific Society. Prof. W. E. Martin, Pres.;

Dr. Geo. G. Groff, Sec.\*

Linnæan (Scientific and Historical) Society, Lancaster. Organized, February 15. 1862; chartered, August 30, 1865. J. P. Meyer, Cor. Sec. Large Museum and Library.\*

Lyceum of Natural History, Marietta. Geo. W. Mehaffey, Pres.;

I. S. Geist, Sec. Museum and Library.\*

Mineralogical and Geological Sections of A.N.S.P. T. D. Rand, Dir.; A. E. Foote, M.D., Sec. Publishes "Proceedings."?

Numismatic and Antiquarian Society, Philadelphia. Founded, Jan. 1, 1858. Daniel G. Brinton, Pres.; Stewart Culin, Rec. Sec.; Benj. S. Lyman, Cor. Sec. Publishes "Proceedings." Pittsburgh College of Pharmacy, Cor. Market and Water Sts., Pittsburgh. Bot., Min., Chem., Materia Med. C. Ex.\*

Reading Society of Natural Sciences. Instituted, January 1, 1869;

incorporated, Nov. 8, 1869. Henry Landis, M.D., Pres.; M. A.

Rhoads, M.D., Sec. Library and collection.\*

Spencer F. Baird Naturalist Association, Reading. Organized,
April 1, 1882. H. H. Weitzel, Pres.; Geo. Gehert, V. Pres.; T. A. Kendall, Sec. and Treas. Arthur Brooks, Curator Museum and Library. The Association desires to exchange minerals for others for its cabinet. Please send lists.

Wagner Free Institute of Science, Philadelphia, Pa.\*

Wyoming Historical and Geological Society, Wilkes-Barré. Incorporated, 1858. Calvin Parsons, Pres.; Sheldon Beynolds, A.M., and Jos. D. Coons, Secretaries. Publishes "Proceedings and Collections." C.\*

Zoological Society of Philadelphia. Incorporated, 1859. Charles Pratt, Pres.; Thos. Hockley, Secretary; Wm. Hacker, Treas.

### RHODE ISLAND.

Newport Nat. Hist. Soc., Incorporated, 1883. Museum in Newport, R. I., illustrating local Geology, Fauna and Flora. Publishes "Proceedings." Pres., Dr. H. R. Storer; Sec., A. O'D. Taylor.\*

Providence Franklin Society, 54 No. Main Street. Chartered, 1823. Scott A. Smith, Pres.; C. R. Drowne, Sec. Annual meeting

first Tuesday in January.\*

Rhode Island Horticultural Society, Providence. Instituted, Sept. 6, 1845; Incorporated, Jan., 1854. John G. Massie, Pres.; Charles W. Smith, Sec. and Treas.\*

#### TEXAS

Texas Academy of Science, Organized Jan. 9, 1892. Headquarters, Austin, Texas. Dr. Edgar Everhart, Pres.; Dr. Alexander Macfarlane, Hon. Sec., Publishes "Transactions."\*

Texas Museum, Scientific and Literary Association, San Antonio. Dr. Isidor Lerinthal, Pres.; C. Runge, Sec.?

#### UTAH.

Desert Museum, Salt Lake City, Utah. J. E. Talmage, Ph.D., F.R.M.S., Pres.\*

#### VERMONT.

Society of Natural History, Brattleboro. Judge H. H. Wheeler. Pres.; Dr. Wm. B. Clark, Cor. Sec.\*

The Fairbanks Museum of Natural Science, St. Johnsbury. Incorporated, Nov., 1889. Franklin Fairbanks, Pres.; Martha G. Tyler, Cur.\*

## VIRGINIA.

Richmond Microscopical Society. Chartered, 1880. Dr. Henry Froehling, Pres.; Dr. Wm. Gascoyne, Vice-Pres.; G. A. Pepley, Sec.; Thomas Christian, Treas.?

Southern Virginia Naturalist's Club, Wytheville. Geol., Min., Mic., Bibliog., Zool., Anth., Arch., Eth., Orn., Ool., Ent. C. Ex.\*

## WASHINGTON.

Tacoma Academy of Science, Tacoma, Wash., Hon. Frank Allyn, Pres.; M. S. Hill, Rec. Sec.; Prof. Wm. C. Taylor, Cor. Sec.\*

Washington Alpine Club, Tacoma. Gen. August V. Kautz, Pres.; Fred G. Plummer, Sec.; C. B. Talbot, Treas. Geol., Bot., Topog., History.\*

## BERMUDA.

Peniston, Annie M., Penistons, The Flatts. Moll. C. Ex.\*

## CENTRAL AMERICA.

#### COSTA RICA.

Alfaro, A., Mus. Nacional, San José. Arch., Hymenopt. C.\*
Borges, Abelardo A., Maestro Sup. y Prof. de la Escuela Graduado de San José. Lepid., Coleopt. C. Ex.\*

Carmiol, San José. Rot.

Cherrie, George K., Curator and Taxedermist, Museo Nacional, San José, Costa Rica. Mammals, Orn., Ool., Herpetol., Tax. C.\*

Pittier, Prof. Dr. H., Director of the Phys. and Geog. Inst., San José. Phys., Geog., esp. Geog. Dist. of Plants. Offers to any serious specialist, to supply him with Costa Rica collections of his preferred group, free of charge. Monographers of the Euphorbiaceæ, Scrophulauriaceæ, Acanthaceæ, Gesneraceæ, Myrtaceæ, Malvaceæ, Alsineæ, of which there are rich series at the Bot. Gardens in Brussells are especially wished for.

Tonduz, Ad., Inst. Fisico Geografico, San José. Bot. C. Ex.\* Underwood, C. F., Cur. Ent. Dept., Mus. Nacional, San José. Ent.\*

Zeledon, José C., San José, Costa Rica. Orn.

#### GUATEMALA.

Luna, Dr. David, Prof. Univ., Guatemala. Phys., Chem., Bot.? Peper, E., Guatemala. Ent.

Rockstron, Edwin, Guatemala. Zool.

Rodriguez, Juan J., 4 A Ave. Sur. 7, Guatemala. Zool., Gen. Biol., Emb., Anat., Anth., Arch., Eth., Ethnog., Philol., Vert., Mammals, Orn., Ool., Herpetol., Ichth., Tax, Osteol., Myol., Histol., Articulates, Ent., Hymenopt., Lepid., Invert. C.\*
Sarg, Francis C., Vice-Consul German Empire, Coban. Zool.,

esp. Spiders and Fresh Water Fishes.

Türckheim, Freiheer H. von. Coban, Alto Vera Paz. Bot., Lepid. C. Ex.

Yela, Dr. Joaquim, Prof. Univ., Guatemala. Bot., Nat. Hist.

#### HONDURAS.

Devenish Syl., Port of Spain. Ophidia.

King, Wm. R., Dir. Honduras Bot. Gardens, Patuca, Rep. of Honduras.
C. A. via N, Orleans, D. C. Bot., Hort., Mic., Gen. Biol. Spec. Palmal Plants, Seeds and Pressed Specimens.

Richmond, Charles W., Patuca, Honduras. Mam., Orn., Ool., Herp. C.

Thieme, Dr. Carolos, San Pedro. Bot., Ent., Con. C. Ex. in Lepid.

Wittkugel, Erich, Naturalist, San Pedro Sula. Mammals, Orn., Ool., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthorpt., Neuropt. C. Ex.\*

#### NICARAGUA.

Arguelle, Narciso, Ruvas. Indigo, Chocolate, Rubber, etc.

Avilez, Antonio, Potosi. Bot., Agric. Bénard, Luis, Granada. Ex. all kinds lit.

Braida, Count Segismundo, Consul U.S.A., Grey Town. Insects, Butterflies, Snake Skins, Curios, etc.

Callejas, Juan, Chinendega. Agric., Bot. Chamberlain, P. W., C.E., Managua. Bot., Geol., Min., Chem., Phys., Mechanics, Anth. C.\*

Chambers, Eduardo, Libertad, Chontales. Min., Insects. in ex.

Coffin, Marcelino, Rivas. Woods, Dyes, etc.

Davis, Frank P., Div. Eng., Nicaragua Canal Construction Co., Indian Antiq. and Photographs from Nicaragua.\*

Downing, Dr. Alex. A., Granada. Anth. Ex. for any kind of Bot. or Nat. Hist. specimens new to Nicaragua.

Downing, Lieut. Orlando, Granada. Ferns, Flora.

Downing, Lieut. Col. Wm. H., Granada. Ex. books, publications, Stamps, etc.

Flint, Dr. Earl, Assoc. Victoria Inst., Rivas. Antiquarian, Arch. Gamez, Prof. Albert, Sub-Sec. of Public Works. Managua. Bot., Min., Hist., Chem.

Gasteazora, Prof. Jose Ma. M.D., Chinendega. Anat.

Gavinet, Julio, Granada. Arch. Collector of Antiquities. Fine and valuable collection.

Grant, Louis T., Elect. Engineer, Managua. Elect., Photog \* Gutierrez, Emelio, Libertad, Chontales. Mines, Rubber, Butter-

flies, Insects, Woods, etc. Harris, Beverly, Blue Fields. Flora. Hort., Bananas, Insects, etc.

Henry, Wm., Granada. Gen. Science. Homma, Prof. Frank, Leon. Chem. Ingalls, Walter, Grey Town. Stamps, Curios, etc.

Low, H. F., Managua. Curios, Antiq., etc.

Moriche, Eugenio, Rivas. Kattlesnakes, Insects, Butterflies, etc.
Murray, David L., Managua. Min. Ex. ores, etc.
Palacio, Enrique, Corinto. Shells, Mammals.
Peter, Alberto, Managua. Hort., Bot., Agric. Ex. Samples Coffee, Rice, Beans, Seeds.

Pizzi, Carlos, San Juan Del Sur. Shells, Mammals. Raimierez, Aciselo, Managua. Stamps, Seals, etc.

Raimerg, Prof. Miguel, Univ. of Granada. Geol., Palco.

Richardson, Thos., Matagalpa. Birds, Shells, Coffee, Precious Woods.

Salivery, Prof. Antonio, Granada. Bot., Ast., Zool., Arch. Ex. Sauza, Prof. E. de, Grey Town. Insects, Venomous Snakes, Herbacia, Etc.

Schubert, P. E., Leon. Phan. Plants; (Coffee, Cocoa).\* Solomon, T. M., Prinza Pulka. Mining, Ores, etc.

Stubbert, J. E., Chief Surveyor Nic. Canal, Managua. Vert. Anat., Emb.

Von Poten, H., Leon. Woods, Herbs, etc.

SAN SALVADOR.

Ulex, Oscar, San Salvador. Lepid., Coleopt. C.

GREENLAND.

Taylor, Joseph Walter, Noungme.

MADEIRA.

Johnson, James Y., Corr. M.Z.S. (London), Funchal. Bot. of Madeira, Ichth., Crustacea, Radiates, Sponges.\*

MEXICO.

Aguilar, Ponciano, Guanajuato. Mining Engineer. Alcacio, Donaciano, San Diego de la Union, Guanajuato. Bot. Alcaráz, Ramon Y., City of Mexico. Agric.

Aleman, Dr. Jesus, Moro Leon, Mexico. Zool.

Altamirano, Dr. Fernando, Instituto Medico, City of Mexico. Altamirano, Ignatius M., "La República," City of Mexico. Anda, Manuel de, M. and C.E., Manrique, 6, City of Mexico. Bot.

Geol., Min., Metall., Meteo.

Andanegui, Juan, B., Pinos, Zacatecas. Min. Anguiano, Angel, Dir. Nat. Obs., Tacubaya. Ast.

Arevalo, Dr. José S., Morelia. Nat. Hist. Arriaga, José Joaquin, Mem. Mex. Nat. Hist. Soc., City of Mexico. Bot., Zool.

Ayme, Luis H., Merida, Yucatan. Arch.

Barcena, Mariano, Dir. del Observatorio Central, Prof. de Geol. and Palæo., Museo Nacional, City of Mexico. Geol. C.\* Barroeta, Prof. G., M.D., San Luis Potosi. Phys., Zool., Bot.

Ex.

Barroso, Agustin, City of Mexico. Bot.

Beachel, L. A. Antiquarian, Santa Isabel, 61, Mexico. Min. C.

Blake, Francis H., El Oro, Estado de Mexico. Geol., Min., Crystall., Inorg. Chem., Metall., Physics.

Blanco, Luciano, Guadalajara. Mining Engineer.\*

Blazquez, Prof. Ignacio, Nat. Hist. Moll., Puebla. Bot.

Bonilla, J. A. Zacatecas. Min.

Cervantez, Faustino, Calle de la Esampa, 2, Morelos.

Chazaro, M. M., Tlacotalpam. Bot.

Chico, Dr. Jesus, Guanajuato. Hygiene. Contreras Juan N., Guanajuato. Mining Engineer. Crespo, Gilberto, City of Mexico. Min.

Dios Fierros, Juan de, Administrador de correos, Progreso-

Yucatan. Palæo., Ast., Bibliog., Gen. Biol.\*

Dondé, R. Juan, Prof. Pharm., Chem. and Nat. Hist., Calle de los Rosados, No. 48, Merida, Yucatan. Bot., Zool., Ent: Coleopt., Orn., Chem. C. Ex.
Dugès, Alfredo, Prof. Nat. Hist., Colegio del Estado, Guanajuato.
Zool., Bot., Vert., especially Reptiles. C.\*

Dugès, Dr. Eugène, Morelia, Michoacan. Coleopt.\*

Egeling, B. F. G., Ph.G., Ph.D., Memb. Verein f. Naturkunde Cassel; Bot. Verein Landshut,; Deutsche Bot. Ges. Berlin, etc.; Ciudad Porifirio Diaz, Coahuila. Bot: Phan. Plants, Lichens, Chem., Mic., Orn. C. Ex.

Endner, Agustin, Assayer of the Mint, Oaxaca.

Fernandez, Leandro, Mexico. Ast. Fernandez, Vincente, Prof. de Farmacia, Colegio del Estado, Guanajuato. Meteo. C. Ex. Mexican birds for those of China and Australia.

Finck, Hugo, Cordova. Arch., Bot., Geol.

Flores, Dr. Reyes G., Calle de St. Domingo 35, Guadalajara. Bot. Fornel, Ing. Manuel, Museo Nacional, Mexico. Min.

Garcia, Dr. Creoensio, Cotija Michoacan, Nat. Hist., Geol. C.

Ex.

Glennie, Francisco, Guanajuato. Mining Engineer.

Gonzala, J. Eleuterio, Monterey. Bot. Gonzalez, Jesus, City of Mexico. Bot. Guevara, Ignacio, Guadalajara. Math. Gutierrez, José M., Ameca, Jalisco. Bot. Heinemann, Dr. C., Vera Cruz. Physiol.

Herrera, Prof. Alfonso L., Museo Nacional 3 a. Calle del Cipres No. 7, City of Mexico. Gen. Zool.\*

Huacuja, Francisco F., Botica de San Francisco, Morelia. Pharmacy, Chem.

Ibanez, Joaquin, Mem. Nat. Hist. Soc., Puebla. Bot. Iparraguirre, Francisco Fernandez, Pharmacien, Guadalajara. Bot. C.

Johnson, Wm. D., Jr., Colonia Diaz, Chihuahua. Ent. C. Ex.\*

Kerr, Prof. J. H., City of Mexico. Chem., Geol.

Landero, C. F. de, Ingénieur Geographe et des Mines. Inspecteur des Mines. Prof. de Chimie à l'Ecole des Ingénieurs. P. O. Box 34, Guadalajara. Min., Chem., Ast. C. Ex.

Lazo de la Vega, J. M., City of Mexico. Bot.

Leon, Miguel Velazquez de, M. E., Hacienda de Pabellon, Aguas Calientes. Mining, Agric. Can procure silver, copper and lead ore samples under an industrial point of view.

Léon Dr. N., Guadalupe Hidalgo D. F., I del Progreso No. I.

Leon, Dr. Nicholás, Calla Sta. Catarina, Morelia, Mexico. Antiq., Anc. Books.

Lilliendahl, A. W., Mining Eng., Guanajuato, Mex. Min. C. Ex. Lobato, Flavio, Guanajuato. Min.

Lopez, Dr. Francisco, Calle 63, Morelos. Meteo.

Mariano Leal, Leon E. de, Guanajuato. Chem., Meteo. Has meteorol. data for three years.

Medal, Melesio, M.D., Facambaro, Michoacan. Nat. Sci. C. Ex.\*

Médico, Paramo, City of Mexico. Meteo.

Melesio, Dr. Medal, Facombaro, Michoecan. "Botica de la Purisima." Path., Bot., Hygiene.

Mendivil, Cirilo Gomez, Lagos. Agric.

Monroy y Salazar, Pedro L., San Luis Potosi. Min.

Moreno, Aniceto, Orizaba. Bot. Munoz, Rudolfo, Real del Monte. Mining Engineer. Muro, Luis, Colegio del Estado, Guanajuato. Min. Navia, Severo, Prof. School of Mines, Guanajuato. Min.

Niven, Wm. Cuautla-Morelos. Min., Photog., Arch. C. Ochoa, Juan, City of Mexico. Min.

Oliva, Sabino, Guadalajara. Bot.

Orozco, Pablo, Guanajuato. Mining Engineer.
Paparelli, Louis, Tech. Dir. of the Vineyards, Winery and Distillery at the Hacienda del Rosario, Parras, Estado de Coahuila. Hort., Agric. and Indust. Chem., Mic.\*

Parres, Joaquin, M. and C.E., Guanajuato. Geol., Min., Crystall. Lithol., Metall., Palco. C. Ex. mins. and rocks.

Pascal, Agustiss v., Guadalajara. Ast., Geol.

Peñafiel, Antonio, Dr., Dir. Gen de Statistique de Mexique. Philologue Mexican et Antiquaire.

Perez, Lalara, Prof. in the Inst. of Sci., Calle de Santa Teresa, 18, Guadalajara. Chem., Pharm.

Perez y Arce, Nanuel, Calle de Santa Moniica, 4, Guadalajara.

Pharm., Chem.

Prieto, Raoul, P. O. Box 34, Guadalajara. Chem., Min., Elect.,

Ast., Meteo. C. Ex. Puente, Feliciano G., Boticario, Morelos. Pharm.

Puga, Nicolais, Guadalajara. Chem.

Quijano, Ficaro, Mazatlan. Bot.

Ramirez, Dr. José, Prof. de Zool. en el Museo Nacional y en el Inst. Médico Nacional, City of Mexico. Zool., Bot. Ramirez, Dr. Roman, Prof. de Zool. en la Escuela de Agric, City

of Mexico. Zool.

Ramirez, Santiago, Calle de Buenavista, 15, City of Mexico. Mining Engineer.

Ramos, José, City of Mexico. Bot. Reyes, Manuel O., City of Mexico. Bot.

Reynoso, Francisco, M.E., Prof. de Fisica en el Colegio del Estado. Geol., Min., Crystall., Lithol., Metall., Physics. C. Ex.

Rocha, Ignacio G., Calle de Sopena, Guanajuato. Mining En-

gineer.

Romero, Carlos, Prof. de Géol et de Paléo. au Collége, Guanajuato. Rovirosa, José M., Ing. topog., Prof. Hist. Nat. en el Inst. Juarez de esta ciudad, San Juan Bautista, Fabàsco. Bot: Phæn. Plants, Ferns, Philol., Geog. Dist. of Plants. C. Ex.\*
Salgado, Dr. Francisco, Colegio del Estado, Guanajuato. Pathol.

Sanchez, Jesus, Cuadranto de Sta. Catarina, 15, City of Mexico.

Zool.

Sauri, Ricardo, M.D., Merida, Yucatan. Ent.

Schiaffino, Mariano L., M.E., Electrician, Guadalajara. Phys., Elect.\*

Schlemm, W. H., Mech. Eng. and Metall., San Miguel del Mezquital, Zacatecas. Phys. Geol., Metall. C. Ex. Min., and Lithol. Segura, José, City of Mexico. Bot.

Sepúlveda y Lucio, Fernando, Licenciado en Farmacia, Plaze, 6, Farmacia, Villa de Brihnega, Guadalajara. Bot. C. Ex.

Silva, J., Zacatecas. Geol. Socket, Sherman G., Corralitos. Metall.

Tena, Dr. Miguel, Botica de Guadalupe, Catarinas, 16, Morelia. Patologia, Cirugia, Obstetricia, Botanica. Bot. C. Ex. Tonel, Jean, Cardova. Bot.

Urbina, Manuel, City of Mexico. Bot.

Velazco, Sr. José M., Museo Nacional, City of Mexico. Zool.

Valle, Felipe, Tacubaya, D. F. Ast.

Villada, Dr. Manuel, Nat. Museum, City of Mexico. Bot., Zool.

Wadgymar, L. A., City of Mexico. Zool., Orn., Bot. C. Weidner, Dr. Frederick, Mazatlan. Geol.

Wilson, H. G., Ensenada, Lower Calif., Mexico. Orn., Ool. C. Ex.\*

Winton, Rev. Geo. Beverly, San Luis Potosi, Mexico.\* Yarate, Francisco P., Zacctecas. Mining.

## ILL MIQUELON.

Delamare, Dr. E., Ill Miquelon. Bot: Esp. Lichens, Sphag.

## NEWFOUNDLAND.

Fowler, Great Placentian. Mining.

Howley, James P., F.G.S., Dir. Geol. Sur. of Newfoundland. St.

McKendrick, Neil, Great Placentia. Mining. Somerville, Beverly R., M.D., Western Bay. Medicine, Arch., Gen. Antiq., Eth. Correspondence solicited from those desiring Latimer, A. W., Lumpkin, Stewart Co., Ga. Mic., Lepid., Ool., Bot. C. Ex.? rare or current Postage Stamps.

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## BAHAMA ISLANDS.

Saunders, Harry R., Nassau, N. P. Ferns, Alga, Sponnges, Sea-Shells.

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Bovell, J. R., Dir. Bot. Station, Barbados. Bot., Chem. D'Albuquerque, J. P., M. A. Cantab., F.I.C., F.C.S., London and Berlin, Island Prof. of Chem. and Agric. Sci., Bridgetown, Barbados. Chem.\*

Franks, Godfrey Firth, M.A., F.G.S., Harrison Coll., Barbados. Geol., Lithol., Philol., Fossil Protozoa.\*

Pranho, G. P., M.A., F.G.S., Master Harrison Coll., Bridgetown, Barbados. Geol.

## CUBA.

Babé, Dr., Con. del Mus. de Hist. Nat. de la Acad. de Ciencias médicas. fisicas y naturales, Calle de San Isidro, Havana. C. Blain, José, San Cristobal. Bot.

Bravo, Juan E., "La Emma," Boniato (Santiago de Cuba). Mosses, Lepid., Coleopt. C. Ex.\* Cabrera y Martinez, José Santa Maria del Rosario. Lepid.

Cisneros, Andrés M. de, Cardenas. Con. Ex.

Clerk, Francisco, Rector del Colegio de los Bdoz Escolapios de Guanabacoa. Min., Moll. C.

Gordon D. Ant. M. de Univ., Havana. Ent.

Gundlach, Juan, Ph.D., Calle Virtudes, 109, Havana. Mam., Orn., Herpetol., Con., Ent. C. of the Cuban spec. Gutierez, Dr. José Nicolas, Rector de la Univ., Calle del Sol., Ha-

vana. Zool., Moll. C.

Lachaume, Jules, Dir. of the Acclimatation Garden, Havana. Bot.

Latorre, Carlos, Colegio de San Carlos, Matanzas. Zool. C. Martin, Angel, Mauranillo. Orn.

Martinez, José Cabrera, Sta. Maria del Rosario, Cotorro. Ent: Lepid. C. Ex. Correspondence in French or Spanish.

Morales, Dr. Sebastian A. de, Calle de Verlarde, 5, Matanzas. Bot.

Presas, J. Manuel, Matanzas. Bot.

Ramirez, del Rio, Dr. Francisco, Aguila 1, Habana. Helicidæ. Con. C. Ex.\*

Santos Fernandez, Dr. Juan, Ophthal., Dir. Havana Histo-Bacteriol. Lab., Reina 92, Havana. Souza y Rodriguez, Benigno, Pedross. Lepid. C. Ex.\*

Yradi, José, Cayetano. Ent.

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Wills, J. Lainson, care Messrs. Evertez, Curacoa. Min. DOMINICA.

Rodriguez, Juan José, Guatemala. Bot., Gen. Zool., Biol. Elliot, Wm. R., Hatton Hall, Prince Ruperts, Dominica. Phan. and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Hort.

Ent., Lepid., Coleopt. C. Ex.\* Green, H. F., Supt. Training School, Dominica. Bot. Jones, Joseph, Cur. Bot. Station, Dominica. Bot.\*

Nicholls, H. A. Alford, M.D., C.M., M.R.C.S., F.L.S., C.M.Z.S., Dominica. Bot., W. I. Bibliog., Zool. C. Ex.\* Skinner, William, M.A., (Cambridge Univ.), Grammar School,

Roseau, Dominica. Invert. Palaco., Geol., Photog., Gen. Biol., Moll. C. Ex.\*

#### GRENADA.

Hely Hutchinson, Sir. W., Governor Windward Islands. Orchidaceæ.

Messerwy, W. J., Dir. Public Works. Gen. Sci. Smith, H. W., Cur. Bot. Station, Grenada. Bot. Wells, John Grant, St. George. Orn., Ool.

## GUADELOUPE.

Colardeau, Dr. St. Felix, Basseterre. Bot.

#### JAMAICA.

Bassett-Key, Rev. E., Balaclava P. O. Jamaica, W. I. Bot., Arch. Bowrey, James John, F.C.S., F.I.C., Gov't Analyt. Chem., Kingston. Chem., Ent., Gen. Nat. Hist.

Brennan, J. F, Supt. of Works, P.W.D., Kingston. Phys., Elect.,

Photog., Meteo.\*
Cockburn, N. S., 14 East St., Kingston. Ent., Gen. Nat. Hist. Davis, L. Foster, Electrician, 19 Port Royal St., Kingston.

Fawcett, Wm., B.Sc., F.L.S., Dir. of Public Gardens and Plantations, Cinchona, Gordan Town, P. O. Gen. Bot. (Formerly of Brit. Mus. of Nat. Hist., London.)\*

Hall, Maxwell, M.A., F.R.A.S., F. R. Met. Soc., Jamaica. Meteo., Ast.\*

Harris, Wm., Supt. Govt. Cinchona Plantations, Gordon Town. Bot: Econ. Plants, Orchids, etc.\*

Henderson, G. C., M.D., Kingston. Mic.

Hutchings, L., Kingston. Ex. Jamaica Ferns, Land Shells.

Institute of Jamaica. Founded, 1879. Museum and Library. Frank Cundall, Sec'y and Librarian, C. H. Tyler, Townsend. Curator of Mus.\*

Johnstone, Robert, Kingston. Meteo.

Mais, Rev. J. L., Walton. Lepid. Plaxton, J. W., M.D., M.R.C.S., Kingston, Jamaica. Scotland, Rev. Horace, Kingston, Jamaica. Geol.

Stracham, Henry, M.D., Kingston, Jamaica. Nat. Hist.

Townsend, C. H. Tyler, (formerly Prof. Zool., Eut., and Physiol., New Mexico Agric. College), Curator of Museum, Institute of Jamaica, Kingston. Gen. Biol., incl. Palco., Anat., and Physiol.; pure and applied Zool. and Ent. of the Neotropical region; and of the Mexican and Southwestern U. S. portions of the nearctic Geog. and espec. Verical Distrib. of species; Diptera, both recent and fossil, espec. Tachinide and dipterous larvæ. C. Desires all current papers and works published on the North and South American, and West Indian faunas, including the fossil fauna: and on the physiology, anatomy, variation, and descent of animal forms. In return will be glad to send material to specialists for study.\*

Vendryes, Henry, Solicitor, Kingston. Con. and Fossils.

# MARTINIQUE.

Nolly, G., Dir. Bot. Gardens, Martinique. Bot. PORTO RICO.

Alfau y Baralt, Antonio, San Juan. Coleopt., Lepid. Guillerna, Cesar de, Ingeniero de Montes, San Juan. Bot.

Stahl, Dr. Augustin, Rayamon. Moll. Vasconi, Dr. Angel, Ingeniero de Minas, San Juan. Min., Geol., Palæo.

Vidaurre, José, Electrician, Dealer in Electrical Sup plies, Ponce Porto Rico. Physics, Elect.

## ST. KITTS.

Branch, Dr., Basseterre. Moll.

Hancock, Ernest A., F.C.S., Govt. Analyst for St. Christopher-Nevis, Basseterre. Chem., Elect., Photog.\* Plumb, C., Cur. Bot. Station, St. Kitts. Bot.

#### ST. THOMAS.

Byran, C. E., St. Thomas, Collector. Bot: Ferns, Mosses, Alga, Crustacea, Moll., M., L. and F. W. Shells. C.

Calderon, H. Charles, St. Thomas. Bot., Herbarium Specimens of the Flora of St. Thomas for Sale. Has thoroughly studied the medicinal plants of the Island and will extend researches to other portions of the W. I. Has commenced a medical herbarium and will prepare sets for distribution should sufficient inducement offer. C. Ex.

## ST. VINCENT.

Powell, Henry, Curator Bot. Station, St. Vincent. Bot. SANTA CRUZ.

Dahl, Christian, Santa Cruz. Bot.

## SAN DOMINGO.

Dehoux, Dr. J. B., Dir. Med. Sch., Port-au-Prince. Bot. Droit, Prof. J., Medical School, Port-au-Prince. Bot.

## TRINIDAD.

Broadway, W. E., Asst. Supt. Botanical Dept., Trinidad. Ent.\*

Caracciolo, Henry, Customs, Port of Spain, Trinidad. Mic., Photog., Ent., Lepid., Coleopt., Hemipt., Orthopt. C. Ex.\*

Devenish, Sylv., Port of Spain. Ophidic.\*

Dihm, H. W. C., Dabadie. Hort.

Guppy, Lechmere, Jr., Sanfernando. Lepid.\*

Guppy, R. J. Lechmere, C.M.Z.S., Trinidad. Geol., Con. C.\* Hart, John Hinchley, F.L.S., Super. Agric., Bot. Dept., Trinidad.

Bot., Ent., Mic., Meteo., Nat. Hist. C. Ex. Mole, R. R., Port of Spain. Ophiology. C. Ex.\*

Urich, F. W., Port of Spain. Zool., Invert. Anat., Econ. Ent. C. Ex.\*

# SOUTH AMERICA. ARGENTINE REPUBLIC.

Aguirre, Eduardo, Ing. Catedratico de Min. y Geol. en la Univ. de Buenos Ayres.

Ameghino, Dr. Florentino, La Plata, Calle 60, No. 675. Palæo. Arata, Dr. Pedro N., Catedratico de Química Médica de la Universidad; Dir. de la Oficina Química Municipal y Catedratico (etc.) de Buenos Ayres. Calle Rivadavia, 2261.

Avé-Lallemant, Germ., Ingeniero de Minas en San Luis, Prov. San

Louis. Geol., Min.

Beale, Charles, C.E., 83 Calle Progress, Rosario de Sante Fé, Argentine Republic. Geol. C. Ex. Offers coal measure fossils or Upper Silurian. Wants mound implements or remains.

Berg, Prof. Dr. Carlos, Prof. de Zool., Univ., Dir. del Museo Nacional, Buenos Ayres. Herpetol., Ent., Lepid., Hemipt. C.\* Beuf, Francisco C., Dir. del Observ. Ast. Provincial de La Plata.

Bodenbender, Dr. W., Catedratico de Quimica Analitica y de Geol ogia en la Univ. de Cordoba. Geol., Min., Invert. Palæo.\* Bruch, Carlos, Topografo del Museo, La Plata. Coleopt., (Ryncho-

phora), Orn. Ex.

Carrasco, Gabriel, LL. D., Officier d'Acad. de France, Membre des Societés de Geogr. de Paris. Madrid, Buenos Aires. Rosario de Santa Fé. Phys. Geol., Phys., Meteo., Bibliog., Numis., C. Numis. Ex.\*

Corti, Jos. J., C.E., Prof. Geodesy, Eng. Sch. S. J., Rivadavia 462,

San Juan. Ast. Davis, Walter, Dir. Oficina Meto. Argentina. Cordoba. Meteo.\* Doeriug, Dr. Adolfo, Cateratico de Química y de Zool. de la

Univ. de Cordoba. Geol., Palæo. and Con.

Doering, Dr. Oscar, Prof. of Phys. in the Nat. Univ., Pres. of the Nat. Acad. of Sci. of the Argentine Republic. Dir. of the Meteorol. Service of the Province of Cordova. Ex Consul to the German Empire. Cordova. Phys., Meteo., Terrestr. Magnetism, Geog.

Günther, Guillermo, Jefe de los Pintores en los Talleres del Ferro-Carril del Oeste en Tolosa (La Plata). Coll. of Ins. Ex.

Hauthal, Rodolfo, Encargado de la Seccion Geol. y Min. del mus. de La Plata.

Holmberg, Dr. Eduardo L., Dir. Jard. Zool. y Catedrático de Bot. de la Univ. de Buenos Aires. Calle Cerrito 858. C.

Hoskold, H. D., Dir, de Depart, Nac, de Minas, Buenos Aires, Calle Grl. Lavalle, 987.

Kurtz, Dr. Federico, Catedrático de Bot, de la Univ. de Córdoba.

C. Ex.

Kyle, J. J., D.Sc., Catedrático de Química Organica de la Univ. v Dir. Química de la Casa de Moneda de Buenos Ayres. Lafone Quevedo, Samuel A., Viticultor en Pilciao, Prov. de Catamarca. Arch.

Lynch-Arribálzaga Enrique Calle Andes, 1452, Buenos Ayres. Dipt. Ex.

Lynch-Arribálzaga, Félix, Calle Andes 1452, Buenos Ayres. Coleopt., Dipt. C. Ex.

Mercerat, Alcide, Maipu 465, Buenos Ayres. Geol., Palæo.\*
Moreno, Dr. Francisco, P., Dir. del Museo Prov. de La Plata, Anth., Palæo.

Quiroga, Dr. Atanasio Catedratico de Quimica Inorganica de la,

Univ. de Buenos Ayres.

Roth, Santiago, San Nicolas, Prov. de Buenos Avres, Palæo. C. Ruscheweyn, Jorge, Calle Santa Fé, 3047 Buenos Ayres. Coll. of Lepid. Ex.

Schickendantz, Federico, Dir. Prof. Colegio Nacional, Tucuman. Min., Bot.

Seelstrang, Arturo von, Prof. Topog., Univ., Cordoba. Topog., Geog.\*

Spegazzini, Dr. Carlos, Catedratico de la Facultad de agron. y vet, de La Plata. 56: 10. Bot. C. Ex. Graminacea Fungi. Thome, John M., Dir. del, Observ. Ast. Nacional en Cordoba.

Ast.

#### BRAZIL.

Barbosa, Rodrigues, João, Dir. Botanical Garden, Rio de Janeiro, Phæn. Bot., Palms, Orchids, Anth., Arch., Ethnog. C. Ex.

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Dafert, Frank W., Ph.D., M.A., Dir. San Paulo State Agric. Inst.,

Campinas, Est. S. Paulo. Agric. Chem.\*

Derby, Orville A., Dir. of Section of Geol. and Min., Mus. Nacional. Rio de Janeiro. Dir. Com. Geog. et Geol. da Prov. de São Paulo. Palæo., Strat. Geol., Min., Lithol.\* De Souza, Dr. Ennes, M.E., Dr. Phil., Dir. Mint, Rio de Janeiro.

Min., Metall.

Edwald, Gustav, Com. Geog. e Geol., São Paulo. Bot. Ferrand, Dr. Paul, Prof. Metall., Sch. of Mines, Ouro Preto, Minas Geraes. Bot.

Freidenreich, Dr. Guilherme, P. O. Box 190, São Paulo. Ent.

Freire, Prof. Dr. Domingos José, Med. School, Rio de Janeiro. Org. Chem.

Freitas, Francisco José de, Rio de Janeiro. Palæo., Geol., Min.

Gama, Dr. J. Saldanha da, Rio de Janeiro. Bot.

Gautier, Dr. F., Manager Esperança Iron Works, Itabira do Campo, Minas Geraes. Min., Metall.

Glaziou, Dr., Dir. Public Gardens, Rio de Janeiro. Bot.

Gordon, John, 62 rua de São Pedro, Rio de Janeiro, Brazil. Hahnel, San Paulo, Upper Amazon. Ent.

Homen de Mello, Dr. Francisco Ignacio M., Baron de, Rio de Ja

neiro. Geol., Eth. Hussak, Eugen, Ph.D., Commissao Geograph. e geolog., São Paulo, Est. S. Paulo. Min., Crystall., Lithol.\*

Jhering, Hermann von, Dir. Zool. Sec. Com. Geog. e Geol. de São

Paulo. Moll , Ent., Mammals.

Joaquin, Sena, Prof., School of Mines, Ouro Preto, Minas Geraes. Min.\*

Krone, Ricardo, Ornithologist, Iguape. Orn. Birds' skins and eggs to sell and exchange.

Lacerda, Dr. J. B., Dir. Zool. Sec. Mus. Nacional, Rio de Janeiro.

Zool., Gen. Biol., Exper. Physiol., Eth.

Löfgren, Alberto, Dir. Bot. Sec. Com. Geog. e Geol. de São Paulo,
Bot., Algology, F. W. Algæ. C. Ex.
Lutz, Adolpho, M.D., Dir. of the Labaratorio Bacteriologico, Rua
Direita 59, San Paulo. Mic., Photog., Zool., Histol., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt.,
Worms, Moll.\*

Magallage Dr. L. V. Conto do São Paulo. Coog. Eth.

Magalhäes, Dr. J. V., Conto de, São Paulo. Geog., Eth. Moreira, Dr. Nicolao, Rio de Janeiro. Bot., Agric.

Müller, Fritz, Blumenau, St. Cattarina. Arthrop., Zool. Neave, Dr. John, Rua Aurora 142, Sao Paulo. Mycol.

Netto. Dr. Ladislau, Dir. General Mus. Nacional, Rio de Janeiro. Bot., Anth., Arch., Eth., Ethnog.

Peixoto, Dr. J. Rodrigues, Rio de Janeiro. Zool., Anth.

Puiggari, Dr. Juan I., Botanist. Com. Geog. e Geol São Paulo. Crptogamia. C. Ex.

Rodde & Pape, Dealers, Bahia.

Schwacke, W., Prof. Bot. à l'école de Phar., Ouro Preto, Minas-Geraes. Bot.\*

Sequeira, Luis A., Belgian Consul, Pernambuco.

Shaw, Wm. Forster, Caixa 112, Bahia. Phys. and Strat. Geol., Min., Meteo., Phys., Mic., Bibliog., Arch., Philol. C. Ex.

Thiré, Prof. Arthur, Mining Eng., Capella Nova do Betin, Minas Geraes. Min.\*

Viuva Claussen & Co., Porto Alegre, Rio Grande do sul. Bot., Hort., Tropical Agric., Meteo., Anth., Eth., Ethnog., Ent. C.\*

#### CHILI.

Borne, Dr. Federico Puga, Sec. d la Soc. Sci. du Chili; Huérfanos 66 B, Santiago. Arachnida.\*

Espic, Juan Edwin, Delicias 269 B., Valparaiso. Bot., Mic., Infu-

soria.

Lataste, Fernand, Sous-Dir. du Musee National d'Histoire Naturelle (section de Zool.) et Prof. de Zool. à l'Ecole de médecine de Santiago. Vert., Zool., Gen. Biol.\*

Mogues, A. F., Ingén, Civ. des Mines, Géologue et physicien, Prof. de phys. indust. à l'Univ. de Chili, Dir. du Museo industrial de

Santiago. Argomedo, 22, Santiago.\*
Mourgues, Louis, Doct. en Méd. de la Faculté de Paris; Prof. de Chimie à l'Univ. du Chili; Conservateur du Mus. Mineralogique et Dir. du Lab. d'essais de la Soc. Nationale des Mines; Casilla 97, Santiago. Chem., Min.\*

Philippi, Ferderico, Dir. del Jardin Bot. y Catedratico de la Univ. y del Inst. Nacional Santiago. Bot., Ent. Philippi, Dr. R. A., Dir. del Museo Nacional, Santiago. Zool., Bot.

Reed, Edwin C., Hacienda de los Banos de Cauquenes.

Schneider, G. H., Ph.D., Inst. Pedagojico. Santiago. Zool., Gen. Biol., Anth.

## ECUADOR.

Cordero, Luis, 14 Carabobo St., Cuenca. Bot., Hort. Destruge, Dr., Guayaquil.

Flores, A., Quito. Gomez, Valdez C., Guayaquil.

Herrera, P., Quito.

Lagerheim, G., Quito. Bot. Larrea, Manuel Angel, Quito.

Matovelle, Julius, Cuenca.

Peralta, Agustin J., LL.D., 60 Pola St., Cuenca. Bot., Hort., Phys., Philol., Ent. Sells Coleopt. and Lepid. Exchanges: used Ecuadorian postage stamps for books.\*

## BRITISH GUIANA.

Douglas, W., F.C.S., F.I.C., Plantation Diamond, Georgetown, British Guiana. Chem.

Harrison, J. B., M.A., F.G.S., F.C.S., F.I.C., Government Analytical Chemist, Georgetown. Chem., Geol., Agric.

Hawtayne, Geo. H., C.M.G., F.R.G.S., Corr. Memb. Zool. Soc. of London, Georgetown. Zool.\*

Hunt, Richard, Keeper Bot. Gardens, Berbici, British Guiana.

Jenman, G. S., F.L.S., Govt. Bot., Georgetown. Bot. Quelch, J. J., B.Sc. (London), Corr. Mem. Zool. Soc. of London, Cur. Mus. R. Agric. and Commercial Soc., Demerara.\*

Rodway, James. F.L.S., Ass't Sec. Royal Agric. Com. Sec. Georgetown, British Guiana. Bot., Mic., Bibliog., Anth., Arch.\* Scard, F. I., Georgetown. Analyt. Chem. Thurn, Everard F., M.A., Pomeroon River. Anth., Orn.

Waby, John F., Head Gardener Bot. Gardens, Georgetown, British Guiana.

Ward, Robert, Second Gardener Bot. Gardens, Georgetown, British Guiana.

Williams, John, F.C.S., Private Ass't to Gov't Chemist, British Guiana, Georgetown, Demerara. Analyt. Chem.\*

## DUTCH GUIANA.

Burls, Herbert Thomas, care of M. de Mesquita, Paramaribo, Surinam.

#### PERU.

Bailey, Solon I., Astronomer, Arequipa. Ast.\* Barranca, José S., Lima. Arch., Nat. Hist.

Chacaitana, Cesareo, Lima. Dibos, Felix, Lima.

Macedo, Mariano, Lima. Arch.

Mendiburn, Gen. Manuel de, Lima.

Mesa, Pio B., Cuzco. Arch. Pasapera, Manuel S., Lima. Quiros, Francis, F.L.S., Lima.

Rehberg, Hermann, Ph.D., Dir. German School in Callao. Ent., Crust., Cælenterata. C. Ex.

Wood, Rev. Thomas Bond, LL.D., Care of U. S. Legation, Lima. Meteo., Eth.\*

#### URUGUAY.

Arechavaletea, José, Catedrático de Bot. de la Univ. de Monte-

video. Crypt.

Arteaga, Rudolfo de, Assoc. M. Inst. C.E., Mem. Soc. of Arts of the Geol. Soc. of King's Coll., and of the Scientific and Mechanical Soc. of Manchester, and of the Sociedad Cientifica Argentina, Ex-Pres. of the Council of Public Works, 72 Calle Buenos Aires, Montevideo.

Barrial, Posada Clementé, Montevideo. Min., Geol., Palæo. Castroman, Dr. M. Rodriguez, Ex-Prof. Instituto de Fisica de la Univ., 217 Calle Ituzaingo, Montevideo.\*

Fleury, L., M.D., Montevideo. Surgery.

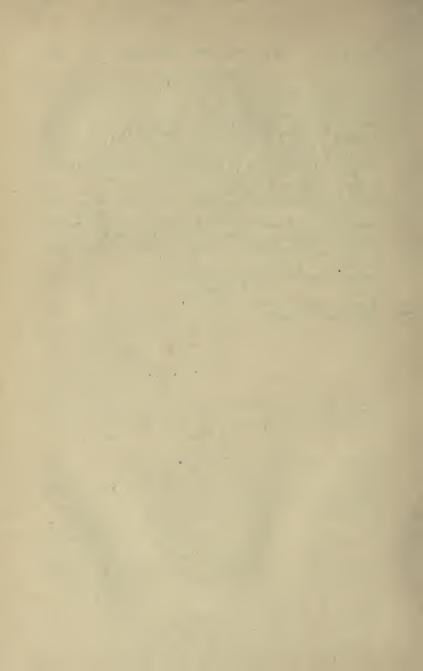
Gomez-Ruano, Alberto, Catedratico de Fisicia de la Universidad de Montevideo.

#### U. S. OF COLOMBIA.

- Balen, Carlos, Bogota. Lepid.
- Baym, Francisco, M.D., Bogota. Bot.
- Dios Carraguilla, Juan de, Bogota. Agric. Herrara, Luis M., Bogata. Chem.
- Jurgens, Carl, care of Wisniewski, Jurgens & Co., San José de Cucuta, Santander, U.S. of Colombia, S. A. Ophidia, Tox-
- icol., Bot. Montoya, Francisco, Prof. of Nat. Sciences, Bogota. Min., Crystall., Photog., Ast. C. Minerals. Ex.\*
- Paris, Rafael Nieto, Bogota. Mic.
- Perez, Dr. Manuel Antonio, Bogota.
- Saenz, Nicolos, Prof. en Ciencias Nat., etc., Bogata. Geol., Agric.,
- Sandino Groot, Wenceslao, M.D., Prof. Bot., Univ. Nacional de Colombia, Bogota, Carrera 7a No 208. Med. Bot.\*
- Thiel, Dr. Julius, Panama. Lepid., Coleopt. Collects and sells spec. of Nat. Hist.
- Zeltner, M. A. de, Panama.
- Zerda, Liborio, M.D., Bogota. Quinimica.

### VENEZUELA.

Acosta, Cecilio, Caraccas. Ernst, A., Caraccas.







# PART II.

## GREAT BRITAIN.

When no other address is given, England should be understood as forming a part of the address.]

Abercromby, Ralph, 21 Chapel St., Belgrave Sq., London. Meteo.
Ackland, Sir Henry Wentworth Dyke, Bart. K.C.B., A.M., M.D., LL.
D. (Edin. Dub. Cantab.), F.R.G.S., Assoc. Fellow Coll. Phys.,
Phila, Hon. Memb. Med. Assoc., Mass., Hon. Student of Ch. Ch., Radcliffe, Librarian and Reg. Prof. Med. in the Univ. of Oxford, Hon. Physician to H.R.H. the Prince of Wales, Oxford.

Aitchison, Jas. Edw. Tierney, Surgeon-Major, M.D., C.I.E., Secretary to the Surgeon-General H.M. Forces, Bengal, 40 Ashburn Pl., Crom-

well Road, London, S. W.

Aitken, Thomas, M.D., Inverness, Scotland. Min. Alabone, Edwin W., M.D., F.R.M.S., M.R.C.S., Eng., 1870. Lynton House, Highbury Quadrant, London, N. Algæ, Diatoms, Lepid., Mic., Insect Dissections. C.\*

Alder Wright, Chas. R., P.O.Sc. (Lond.), B.Sc. (Vict.), F.R.S., 3 Castellain Road, Maida Vale, London, W., Consultant in relation to

Technological Chemistry. Chem.

Aldous, Thos. 1"., F.R. M.S., 37 St. Peter's Road, Croydon, Surrey.

Bacteria, History of the Microscope.\*

Alexander, John, M.A., F.C.S., Sharp's Institution, Perth, Scotland. Chem.

Allbutt, T. Clifford, M.A., M.D., F.R.S., F.L.S., Reg. Prof. Medicine, Cambridge.\*

Allen, Alfred, Editor, "International Journal of Microscopy and Natural

Science," I Cambridge Place, Bath. Mic.\*
Allman, G. J., M.D., LL.D., F.R.S., Ardmore, Parkstone, Dorset. Zool., Invert., Anat., Radiates.\*

Ames, George Acland, Union Club, London, S.W. Mic., Navigation, Music.

Anderson, John, M.D., LL.D., F.R.S., 71 Harrington Gardens, South Kensington, London, S. W. Vert., Ethnol., Arch.

Anderson, Joseph, Jr. (Hon'y Curator Chichester Mus.), Alre Villa, Chichester. Lepid., Mic. Anderson, Tempest, M.D., F.G.S., 17 Stonegate, York. Volcanic Geol.\* Anderson, Rev. Dr. Th. D., Edinburgh, Scotland. Ast.

Andrew, John J., L.D.S., R.C.S., M.O.S. (London), 2 Belgravia, Lisburn Road, Belfast, Ireland. Bot., Mosses, Mic., Emb., Comp. and Dental Anat. C. Ex.

Andrews, Charles Wm., B.Sc., F.Z.S., Brit. Mus. (Nat. Hist.), Cromwell Road, London. Vert., Palæo.\*

Andrews, R. T., 25 Castle St., Hertford. Bot., Local Antiq.

Archer, William, M.R.I.Ac., 11 South Frederick St., Dublin, Ireland. Protozoa.

Armstrong, George Frederick, M.A., M. Inst. C.E., F.R.S.E., F.G.S., Regius Prof. of Engineering, Univ. of Edinburgh, Scotland.\* Arnold, Rev. F. H., LL.B., Hermitage, Emsworth, Hants. Bot.

Ashford, Chas., Christchurch, Hampshire. Structure of British L. and F. W. Moll.

Ashley, Miss Mary, 16 New King St., Bath. Ast., Photog.\* Attfield, Prof. John, M.A., Ph.D., F.R.S., 17 Bloomsbury Sq., London.

Aubrey, Rev. H. G. W., Hale Rectory, Salisbury. Ent., Mic. Babington, Charles Cardale, F.R.S., F.L.S., F.G.S., Dir. Bot. Garden and Prof. of Bot. in the University, Brookside 5, Cambridge.

Backhouse, James, F.Z.S., M.B.O.U., Renoso, Victoria Ave., Harrogate. Orn., Ool. C. Ex.\* Backhouse, T. W., F.R.A.S., F.R. Met. Soc., West Hendon House, Sun-

derland. Ast., Meteo.\*
Badcock, J., F.R.M.S., Queen's Gate, 270 Victoria Park Rd., South

Hackney, E. Mic.

Bahers, E. A. L., B.A., LL.B., F.L.S., The Laurels, Wormley, Herts.

Marine Algæ. Bailey, Charles, F.L.S., Sec'y Bot. Exchange Club of the British Isles, Ashfield, College Road, Whalley Range, Manchester. Bot.: Phæn. Plants, Mic. C. Ex.\*

Bain, Donald, Gateshead, Durham. Bot.
Baker, Ernest E., Weston, Supermare. Local Hist.
Balfour, F. M., Cambridge.
Balfour, Isaac Bayley, Queen's Botanist in Scotland, Keeper of Royal
Botanic Garden, Edinburgh, Prof. Bot., Univ. of Edinburgh, Scotland.\*

Ball, Valentine, LL.D., C.B., F.R.S., F.G.S., M.R.I.A., Dir. Science and Art Museum, Dublin, Honorary Sec. Zool. Soc. of Ireland. Geol., Min., Orn., Geog. Dist., Eth.\*

Barber, C. A., Christ's Coll., Cambridge. Veg. Palæo.\*

Barclay, Hugh G., F.R.G.S., Colney Hall, Norwich. Gen. Sci. C.\*

Barker, Robert Arnold, M.D. E. C.S. Beth.

Barker, Robert Arnold, M.D., F.G.S., Bath.

Barlow, W. H., F.R.S. (L. and E.), High Coombe, Old Charlton, London, S. E.\*

Barrett, Wm. Bowles, F.L.S., 2 Belfield Terrace, Weymouth. Bot., Dorset Phanerogams and Filices.
Barrett, W. F., F.R S.E., M.R.I.A., Royal Coll. of Science, Stephen's

Grcen, Dublin, Ireland. Physics.\*

Barrett-Hamilton, Gerald E. H., M.B.O.U., Kilmarnock, New Ross, Co. Wexford, Ireland. Zool., Vert., Mammals, Orn., Ool. Col. Birds.

Barrington, Richard M., M.A., LL.B., F.L.S., Fassaroe Bray, Co. Wicklow, Ireland. *Phæn. Plants, Meteo., Zool., Geog. Dist., Orn., Ool.* C. Bird Skins. Ex.

Barry, Robert, 21 Manchester St., Liverpool. Tax.
Bastian, Henry Charlton, M.A., M.D., F.R.S., Prof. of Medicine at University Coll., London, 8a Manchester Square, W.\*

Bateson, W., St. John's Coll., Cambridge. Zool.

Bather, F. A., Nat. Hist. Museum, London, S.W. Crinoidea. Batters, Edw. A., B.A., LL.B., F.L.S., The Laurels, Wormley, Herts.

Batters, Ed., Alga. C. Ex.\*

Baxendell, Joseph, The Observatory, Birkdale, Southport. Met., Ast.\*

Baxter, Wynne E., F.G.S., F.R.M.S., 170 Church St., Stoke Newington, N. London. Diatoms, Mic., Photog. C. Ex.\*

Baynes, J., Ph.D., F.I.C., F.C.S., F.R.M.S., Analytical and Consulting Chemist, Assayer, etc., Hull and East Riding Laboratories, Scale Land Hull.

Lane, Hull. Chem.

Beale, C. F., Lucknow, Avenue Road. Torquay. Geol., Crust. Beard, Dr. John, Zool. Dept., Univ. of Edinburgh, Scotland. Vert. Morphol., Emb., Zool.\*
Becker, Ludwig, Glasgow, Scotland. Ast.
Beddard, Frank E., Prosector to the Zool. Soc. of London, Zool. Gardens,

Regents Park, London, N.W. Vert., Worms. C. Ex.

Beddome, Col. R. H., West Hill, Putney. Ferns, Moll. Ex. land shells. Bedson, P. Phillips, D.Sc., B.Sc., Prof. Chem., Durham Coll. of Sci., Newcastle-on-Tyne. Chem., Metall.

Beeby, W. H., F.L.S., Vaila, Burwood Park Road, Walton-on-Thames.

Bot. Ex. spec. Rumex, Sparganium, Typha.\*

Beetham, Arthur, Barrister-at-Law, 14 South Square, Gray's Inn, Holborn, London. Diatoms, Mic. C. Ex.

Belfast Naturalists' Field Club, Belfast, Ireland. Irish Antiq., Photog.,

Geol., Bot., Micro-Foraminifera.\*

Bell, Dr. C. A., University Coll., London, Member Chem. and Philos. Societies of Washington.\*

Bell, Prof. F. Jeffrey, M.A., Sec. R.M.S., British Mus., Cromwell Rd., London, S.W., and King's Coll., London, W. C.\*

Bell, Thos., Indian Forest Service, Glenhill Cottage, Walmer. Coleopt. C. Ex.
Benham, Wm. B., Zool. Lab., Univ. Coll., London.
Bennett, Arthur, F.L.S., 143 High St., Croydon, near London. Bot.
Potamogetons and Carices. C. Ex. Desires Potamogetons from all parts of the world. Will send British Plants or other Potamogetons. mogetons in ex.\*

Bennett, A. W., M.A., B.Sc., F.L.S., Lect. on Bot., St. Thomas' Hospital, 6 Park Village, E. Regent's Park, London, S.W. Bot.: Crypt.

Plants, Alga, Desmids.

Bennett, Sir Jas. Risdon, M.D., LL.D., F.R.S., 22 Cavendish Sq., London, W.

Bennett, John, F.R.M.S., Member of Bradford Sci. Assoc., Tudor St., Manchester Rd., Bradford, York.\*

Bentley, C. S., F.S.A., F.R.M.S., care of Baring Brothers & Co., 8 Bi-hopsgate St., Wistim, E.C., London. *Phys.*, *Mic.*, *Bibliog.*, *Philol.*,

Beringer, John J., Basset Road, Camborne, Cornwall. Min., Inorg. Chem., Metall.

Besant, Wm. Henry, D.Sc., F.R.S., F.R.A.S., Fellow of, and late Mathematical Lec. at St. John's College, Cambridge.\*
Bevan, Rev. J. O., M.A., Assoc. Inst. C.E., F.G.S., F.R.M.S., F.C.P., The Vicarage, Vowchurch, Hereford.\*

Bidroid John P.S., (Lond.), F.L.S. (Lond.), 7 Bichmond Townson

Bidgood, John, B.Sc. (Lond.), F.L.S. (Lond.), 7 Richmond Terrace, Gateshead-on-Tyne. Bot.: Crypt. Flants, Ferns, Alga, Gen. Biol. C. Ex.

Bigger, Francis Joseph, Hon. Sec. Belfast Naturalists' Field Club, Ardrie, Belfast, Ireland. Hort., Photog., Arch., Ent. C. Ex.\* Birkenhead, W. and J., Fern Nurseries, Sale, near Manchester.

Desire to obtain new or rare Ferns by exchange or purchase.\*

Bisset, Joseph (Associate, Royal Coll. of Sci., London), Findhorn, Elginshire, Scotland. Bot., Geol., Biol., Physics, Physiol. Bisset, J. B., Wynndun Banchory, Scotland, or Yokohama, Japan. Desmids.

Black, George F., Ph.D., Asst. Keeper Mus. of Antiquities, Edinburgh, Scotland. Phys. Geol., Geog. Dist., Anth., Arch., Ethnol., Ethnog., Philol.

Blackburn, Wm., Woodlands, Chorlton-Cum-Hardy. Mic., Zool., Emb.,

Invert., Sponges. C. Ex. Blackie, W. G., Ph.D., LL.D., 17 Stanhope St., Glasgow, Scotland. Geog.\*

Blackmann, F. F., St. John's Coll., Cambridge. Bot.
Blackmore, H. P., M.D., F.G.S., St. Ann St., Salisbury. Prehist. Arch. Blake, Rev. J. F., M.A., F.G.S., 22 Newman St., London, W. Geol., Palæo.\*

Blanford, Henry F., F.R.S., 7 Ingles Road, Folkestone. Meteo. Blanford, Wm. F., 72 Bedford Gardens, London, W. Geol., Geog. Dist., Vert., Mollusks.

Blathwayt, Linley, Lieut. Col., F.L.S., F.E.S., Batheaston, Bath. Ent.\* Bles, Edward J., B.Sc. (Lond.), Dir. M.B.A. Lab., The Lab., Plymouth. Morphol., Emb., Invert. Anat., Worms. C. Ex.\*
Blomefield, Rev. Leonard, M.A., 19 Belmont, Bath. Zool., Bot.
Blow, Thomas Bates, F.L.S., Welwyn. Phan. Bot., Photog., Geog.

Dist., Hymenopt.\*

Boeddicker, Otto, Ph.D., Observatory of Birr Castle, Parsonstown, Ireland. Ast.\*

Bolas, Thos., 60 Grove Park Terrace, Chiswick, London. Chem.\*

Bonsfield, Edw. C., 363 Old Kent Road., S.E., London.

Boodle, Leonard A., F.L.S., Royal Coll. of Sci., So. Kensington, London. Bot.\*

Bot.\*

Boog Watson, Robert, F.R.S.E., F.L.S., etc., etc., Pres. Con. Soc. Gt. Britain, Cardross, Dunbartonshire, Scotland. Moll.

Bostock, Edwin, F.L.S., F.R.M.S., Tixall Lodge, Stafford. Mic., Acarina, esp. Oribatida. C. Ex.\*

Boswell, H., M.A., Woodstock Road, Oxford. Mosses, Hepatica.

Bottomley, J. T., M.A., D.Sc., F.R.S., F.C.S., 13, Univ. Gardens, Glasgow, Scotland. Chem., Phys., Elect., Photog.\*

Boucard, Adolphe, Voyageur-Naturaliste, Officier d'Académie, Chevalier de l'ordre royal de la Conception, 225 High Holborn, London, W. C. Ethnog., Orn., Ent., Coleopt., etc. C. Buy, sell, or exchange. Has in stock 40,000 specimens of Birds' Skins and 200,000 specimens of Insects to dispose of.\* of Insects to dispose of.\*

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Bourne, Gilbert C., M.A., F.L.S., The Laboratory, Citadel Hill, Plymouth. Corals, etc.

Bouskell, Frank, Solicitor, F.E.S., Hon. Sec. Leicester Ent. Club, Hon. Sec. Knighton Hort. Soc., 11 Lansdowne Rd., Stoneygate, Leicester.

Hort., Ool., Ent.: Lepid., Coleopt. C. Ex.\*
Bower, Prof. F. O., Univ., Glasgow, Scotland. Bot.
Bowman, Frederic H., D.Sc., F.R.S.E., Assoc. Insts. C. E., and M.E.,
M.I.E.E., F.L.S., F.G.S., F.R.A.S., F.C.S. (London and Berlin), F.
I.C., etc., Ash Leigh, Bowdon, Cheshire. Mic., Chem., Elect., Molecular Physics, Spect., Elect. and structure of cotton and other textile fibres.\*

Boyd, D. A., Glasgow Nat. Hist. Soc., Scomill, W. Kilbride, Scotland. Bot., Mosses, Fungi, Lichens. Brace, L. J. K., F.L S., Hereford. Bot.

Bradshaw, Chas., F.C.S., Public Museum, Sheffield. Geol., Min., Lithol., Chem., Photog.

Brady, Geo. S., M.D., F.R.S., Mowbray Villa, Sunderland. Crust., Radiates.\*

Brailey, Wm. A., 11 Old Burlington St., London, W. Mic. Memb. Ophthalmol., Pathol. and Med. Societies.\* Bramwell, Sir Fred. Joseph, Bart., D.C.L., F.R.S., 5 Great George St.,

Westminster, London, S. W. Brent, Francis, F.S.A., 6 Tothill Ave., Plymouth. Antiquities (Flint implements and weapons).

Bridge, Prof. T. W., F.Z.S., Mason Coll. of Science, Birmingham. Zool.\* Brightwen, Mrs., The Grove, Great Stanmore. Bot., Hort., Orn., Ent.\* Brindley, H. H., St. John's Coll., Cambridge. Zool. Britten, J., F.L.S., Senior Asst. Dept. of Bot., British Mus., Editor of the "Journal of Bot." and "Nature Notes"; 18 West Square, South-

Brodie-Hall, Miss W. L., The Gore, Eastbourne, Sussex. Bot., Ferns., Alga, Meteo., Lepid.\*

Brough Bennett H. Brod. of Mire Screenis Brod.

Brough, Bennett H., Prof. of Mine Surveying, Royal School of Mines, South Kensington, London. Geol. (Mining), Meteo.

Brown, John, Windsor Ave., Belfast, Ireland. Elect.

Brown, J. Macdonald, M.B., Lect. Anat., School of Medicine, Edinburgh, Scotland.

Brown, N. E., A.L.S. Herbarium, Kew, Surrey. Botanist.\*
Brown, Robert, M.A., Ph.D., F.L.S., F.R.G.S., Fersley, Rydal Road, Streatham, London, S.W. Geog. Dist. (spec. Arctic Regions, N. W. America, the Barbary States of N. Africa), etc.\*
Browne, Montague, F.G.S., F.Z.S., etc., Curator, Museum, Leicester, Palæo., esp. Palichthyol., Gen. Nat. Hist., esp. Fishes. C. Ex.\*
Brownie, A., M.A., L.C.P., Ward Acad., Anstruther, Scotland. Chem. Bruce, Chas., Antiquarian, Mount Hooly House, Wick, Scotland.\*
Brunton, T. Lauder, M.D. E.R.S. 10 Strafford Place, London, W.

Brunton, T. Lauder, M.D., F.R.S., 10 Stratford Place, London, W.

Pharmacology and Therapeutics.

Bryan, George H., M.A., Thorn Lea, Chaucer Rd., Trumpington Rd., Cambridge. Phan. Plants, Ferns, Diatoms, Phys., Elect., Mic., Ast., Ent. C. Ex.\*

Buckton, Geo. Bowdler, F.R.S., F.L.S., F.C.S., F.E.S., Acad. Nat. Sci. Phila., Corr. Memb. de la Soc. Ent. de France, Weycombe, Haslemere, Surrey.

Buffham, Thos. Hughes, A.L.S., Comely Bank Road, Walthamstow.

Marine Alga, Diatons, Mic., Ast. A special collection of microscopic slides illustrating reproductive organs of Marine Alga. Ex.\*
Bull, William, F.L.S., F.R.G.S., F.Z.S., F.R.H.S., M.A.I., F.R.B.S., M.S.A., 536 King's Road, Chelsea, London, N. W. Hort.
Burbidge, Fred'k Wm., M.D., F.L.S., M.A., F.R.H.S., Lond., Curator Trinity Coll. Bot. Gardens, Dublin, 91 Haddington Road, Dublin, Iveland, Bot. Moses, Famai, Hort. C. Botonical Formation

Ireland. Bot: Mosses, Fungi, Hort. C. Botanical Ex.
Burgess, E. W., 35 Langham St., London. Diatomaceæ, Foraminifera.
Burgess, James, C.I.E., L.L.D., F.R.G.S., M.R.I.B.A., M.R.A.S., etc.,
Late Dir. Gen. of the Archæological Survey of India, 22 Seton Pl.,

Edinburgh, Scotland. India Arch., Geol.\*

Burkill, I. H., Caius Coll., Cambridge. Bot.\*

Burrows, Henry W., A.R.I.B.A., 94 Elm Park, Brixton Hill, London, S. W. Invert. Paleo., Geol., Moll. C. Tertiary Fossils. Ex.\*

Bury, Henry, Fellow Trinity Coll., Cambridge. Emb., Echinoderms.

Busk, Geo., F.R.S., 32 Harley St., W. London. Bryozoa.
Butler, Lieut. Col., Herringfleet Hall, Lowesloft, Suffolk. Orn., Ool.,
Tax. C. Ex.\*
Butler, Gerard W., Blenheim Lodge, Surbiton. Emb., Fishes.
Butterworth, Joseph, 13 Manchester St., Liverpool. Tax.
Bywater, Witham M., M.R.I., 5 Hanover Sq., London, Mic., Photog.,
Arch.\*

Arch.\*\*
Cadell, Henry M., B.Sc., F.R.S.E., Grange, Bo'ness, Scotland.\*
Calderwood, Wm. L., Dir. Marine Biol. Assoc., The Laboratory, Citadel Hill, Plymouth.
Caldwell, W. H., 12 Harvey Road, Cambridge. Emb., Mammals.
Calman, W. T., Univ. Coll., Dundee, Scotland. Rotifera, Invert., Zool.\*
Cambridge, Rev. O. P., M.A., F.R.S., Bloxworth Rectory, Wareham.
Brit. Lepid., Arach. C.
Campbell, F. M., F.L.S., Rose Hill, Hoddesdon, Herts. Ent., Arach.
Campbell, John McNaught, C.E., F.Z.S., F.R.S.G.S., Memb. Soc. Zool.
de France. Senior Asst. Cur., Kelvingroye Mus. and Corporation

de France, Senior Asst. Cur., Kelvingrove Mus. and Corporation Galleries of Art, Glasgow, Scotland. Zool., Arch., Eth., Herpetol., Tax. C. Ex. Wishes to obtain crania, and live reptiles, by pur-

Cannon, W. H., Analyst and Assayer, 18 and 19 Fenchurch St., London, E. C.

Capella, Rev. Father, Ratcliffe Coll., near Leicester. Mic., Fungi.
Capper, Samuel James, F.L.S., F.E.S., Pres. Lancashire and Cheshire
Ent. Soc., Huyton Park, Huyton, near Liverpool. Ent., Lepid.
Carmichael, Thomas D. Gibson, Chiesswood, Melrose, Scotland. Ent.,

Myriopoda.

Carpenter, G. H., B.Sc., Science and Art Mus. (Nat. Hist.), Dublin, Ireland. Geog. Dist., Ent., Arach.

. Carpenter, R. Herbert, Asst. Master, Eton College, near Windsor.

Crinoids, Echinoderms.

Carr, J. W., M.A. (Cantab.), F.G.S., Sup't. of Biological Laboratory and Cur. Nat. Hist. Museum, University Coll., Nottingham. Palæo., Zool., Bot. C.\*

Carr, W. D., 20 Carholme Road, Lincoln. *Palæo*. C. Ex. Carruthers, W., F.R.S., Curator Bot. Dept., Nat. Hist. Mus., London. Carter, H. J., F.R.S., The Cottage, Budleigh-Salterton, Devon. *Sponges*, Foraminifera and Infusoria.\*

Carulla, F. J. R., The Sharon Chemical Co., Limited, Derby. Chem. Cash, Wm., F.L.S., F.G.S., F.R.M.S., 38 Elmfield Terrace, Halifax.

Bot.: spec. Carboniferous Plants, showing structure, Palwo., Ent.,

Mollusks. C. Ex.
Caton, Richard, Prof. of Physiol., Univ. Coll., Victoria University,
Liverpool, 86 Rodney St., Liverpool. Physiol. and Histol. of Vert.
Cave-Browne, Rev. J., Delling Vicarage, Maidstone, Kent. Lepid.
Cayley, Prof. Arthur, F.R.S., Garden House, Cambridge. Math.

Chamberlain, Rt. Hon. Joseph, 40 Prince's Gardens, and Athenæum Club,

London, S.W. Orchids. Chapman, Fred'k, Brooklyn, Oakhill Road, Putney, London, S.W. Palæo., Geol., Lithol., Protozoa, Foraminifera.\*

Chapman, T. Algernon, M.D., Firbank, Hereford. Ent., Bot. C. Chattock, A. P., Univ. Coll., Bristol. Phys., Elect., Chem. Christie, William Henry Mahony, M.A., F.R.S., F.R.A.S., Astronomer

Royal, Royal Observatory, Greenwich, S.E. Christy, Miller, Fellow Linnean Soc., Priors, Broomfield, near Chelmsford. Bot., Ferns, Bibliog., Zool., Geog. Dist., Arch., Ethnol., Mammals, Orn., Herpetol., Tax., Moll. C. Ex.\*
Christy, Thomas, F.L.S., F.R.G.S., M.S.C.T., Malvern House, Syden

ham, W. London. Bot., Veg. Palæo., Phys. Geol., Chem., Geog. Dist., Hist. C. Ex.
Chrystal, George, M.A., LL.D., Prof. Math., Univ., Edinburgh, Scot-

land.

Clapham, T. R., F.R.A.S., Austwick Hall, Lancaster. Phys., Mic.,

Photog., Ast., Orn. Clark, James, M.A., Ph.D., Lecturer on Agric. Bot., Yorkshire College,

Leeds. Bot., Phan. Plants., Hort. C. of grasses. Ex.
Clark, J. Edmund, B.A., B.Sc., Bootham School, York. Geol., Ferns,
Meteo. Ed. "Natural History Journal."\*

Clark, Jos., F.R.M.S., Hind Hayes Street, R.S.O., Somersetshire. F. W. Sponges, Diatoms. C. Ex.\*

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Public Analyst for St. James, London; Consulting Physician London Temp. Hospital; Ex-Pres. British Medical Temp. Association.\*

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Nat. Hist. Departments, British Museum, Cromwell Road, London,

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Birmingham. Chem., Phys., Electro-Met.\*
Gore, John E., E.R.A.S., M.R.L.A., Assoc. M.L.C.E., E.R.C.S.L., Linker, M. C. C., L. L.

Gore, John E., F.R.A.S., M.R.I.A., Assoc. M.I.C.E., F.R.G.S.I., Hon. Memb. Liverpool Ast. Soc., Corresponding Memb. Ast. and Phys. Socs. of Toronto; Beltra, Ballisodare, Co. Sligo, Ireland. Ast., Variable and Double Stars.\*

Gosse, Philip Henry, St. Mary Church, near Torquay. Graham, Archibald, Supt. of Garden Park and Works, Hampton Court Palace, London.

Green, Prof. A. H., F.R.S., Univ. Mus., Oxford, Eng. Geol.\*
Green, W. S., F.R.G.S., H. M. Inspector of Fisheries, Dublin Castle.
Dublin, Ireland. Biol., Marine. Nat. Hist.

Greenwood, Miss Marion, Newnham College, Cambridge. Physiol., Bot. Author of papers on the digestive processes in Protozoa, etc.\*

Gregory, James R., 88 Charlotte St., Fitzroy Sq., London, W. Min.\* Gregory, J. Walter, F.G.S., British Mus. (Nat. Hist.), London, S.W. Palæo, Echin., Bryozoa.
Grieve, John, M.D., F.R.S.E., care of W. L. Buchanan, Esq., 212 St. Vincent St., Glasgow, Scotland. Alga, Orn., Ichth., Crustacea.\*
Groom, Percy, Caius Coll., Cambridge. Bot. (Morphol., Syst. and Tax-

onomic).

Groom, Theo. T., St. John's Coll., Cambridge. Invert. Palaco., Geol., Lith., Zool., Invert.

Grove, Edmund, F.R.M.S., Preston, Brighton. Diatomacea. Groves, Henry, 58 Jeffreys Road, Clapham Rise, London, S.W. Phanerogams, Hepatica, Characeæ (espec. water plants).
Groves, James, F.L.S., 58 Jeffreys Road, Clapham Rise, London, S.W.

Phænorogams, Hepaticæ, Characeæ (Espec. water plants).
Groves, J. William, F.L.S., F.R.M.S., formerly Prof. of Botany, King's

College, London, Saville Club, Piccadilly, London, W. Bot., Mic., Gen. Biol.\*

Grubb, Sir Howard, F.R.S., F.R.A.S., Knight, Hon. Master of Eng., Dublin Univ., Hon. See'y Royal Dublin Soc., Ast. Instrument Maker, 51 Kenilworth Sq., Rathgar, Dublin, Ireland.\*
Grundy, C. C., F.L.S., F.C.S. (Lond.), South Shore, Blackpool. Bot.,

Chem.

Gude, G. K., 5 Giesbach Road, Upper Holloway, London. Hymenopt., Moll., Gen. Biol., Bibliog., Dist. of Helicidæ. Requests reprints of

papers. C. Ex.\*

Guillemard, F. H. H., M.A., M.D., Cantab., F.L.S., The Mill House,
Trumpington, near Cambridge. Zool., Geog. Dist., Anth., Orn.\*

Günther, Albert, M.A., M.D., Ph.D., F.R.S., British Mus., N.H., Lon-

don. Zool.\*
Guppy, R. J. Lechmere, C.M.Z.S., London. Geol., Con. C.

Gurney, John H., Northrepps, Norwich. Orn. C.

Gurney, John H., Jr., Keswick, Norwich. Orn. C. Gwatkin, Prof. H. M., Scrope Terrace, Cambridge. Moll.\*

Haddon, Alfred C., Prof. Zool., Royal Coll. of Science, Dublin, Ireland and of Inisfail. Hills Rd., Cambridge. Zool., Gen. Biol., Emb., Anth., Arch., Eth., Ethnog.\*

Hadfield, Robert Abbott, care of Hadfield's Steel Foundry Co., Ltd., Sheffield. Metall., Physics, Elect.

Halkyard, Edward, The Firs, Knutsford, Cheshire. Foraminifera. Hall, Capt. Marshall, J.P., F.G.S., F.C.S., Easterton Lodge, Parkstone,

R.S.O., Dorset. Geol., Chem.\*
Hallam, S. Robinson, F.R.S., Devonshire House, Beauchamp Road, New Wandsworth, London, S.W. Bot.: Phæn. Plants., Org. Chem., Mic., Photog., Ool., Histol., Ent., Lepid. C. Ex. Histol. and Pathol. Mic. Slides (Human) for others. Human parasites preferred.

Halzier, Col. Henry, 87 Wimpoole St., London. Bot. C. Ex.

Hamel, Egbert de, Middleton Hall, Tamworth. Bot., Inorg. Chem., Mic., Gen. Zool.

Hamilton, John M., Clarence Villa, Stepney, Hull. Hebrew Antiquities

collected during two visits to Palestine. Hanbury, Frederick J., F.L.S., F.E.S., 37 Lombard St., London. Bot.: Phan. Plants, esp. Hieracia, Crypt. Plants, Ferns, Ent., Lepid. C.\* Hanitsch, Dr. Richard, Ph.D., Demonstrator of Zool., Univ. College,

Liverpool. Zool., Sponges.\*

Harbison, Mann, 5 Ravenhill Terrace, Belfast, Ireland. Geol., Zool.

Harcourt, Edward William, Nuneham Park, Abingdon. Hort., Agric., Geol., Orn., Ool., Osteol.
Harcourt, L. V., Malwood, Lyndhurst, Hant. Orn.
Harcourt, Rt. Hon. Sir Wm. George Granville, Venables Vernon, Knt.,

M.A., 7 Maplewood-Hants.

Harding, Geo., F.E.S., The Grove Fishpond, Bristol. Ent.
Hardy, Jas. D., 73 Clarence Rd., Clapton, London. Pres. of the London
Amateur Scientific Soc., Memorial Hall, Farington St., London, E. C.\*

Hargitt, E., 1 Northanger Rd., Streatham Common, London, S.W. Orn.\*

Hargreaves, James, F.C.S., F.A.S., Widnes, Lancashire. Thermist and Tech. Chem.

Hargreaves, John, F.C.S., F.I.C., Overe. CROCE D'ORO, Orde. Acdmoo, Widnes, Lancashire. Technical Chem. and Met.

Harker, Allen, Prof., Nat. Hist., Royal Agric. Coll., Cirencester.

Ent., Gen. Biol.\*
Harmer, F. W., F.G.S., Oakland House, Oringleford, near Norwich. Exchange hardy Plants and Ferns.

Harris, George F., F.G.S., etc., 20 Craster-Road, Brixton Hill, London, S.W. Invert. Palæo., Strat. Geol., Moll. Large Coll. Ex. Harmer, Sidney F., Fellow King's College, Cambridge. Emb., Polyzoa.\* Hart, D. Berry, M.D., F.R.C.S.E., Lect. Gynæcol., School of Medicine, Factland Scatland Edinburgh, Scotland.

Hart, Fred'c Wm., F.C. Soc. London, Holly House, 96 Stoke Newington Road, London, N. Org. and Inorg. Chem., Metall., Phys., Elect.,

Mic., Photog. Hart, Henry Chichester, B.A., F.L.S., Carrablagh, Croaghross, Letterkenny, Donegal, Ireland. Bot .: Phan. and Crypt. Plants, Ferns,

Mosses, Hort., Veg. Palæo., Lepid., Meteo., Strat. and Physical Geol., Geog. Dist., Anth., Arch., Philol, Orn., Ool. C.
Harting, James Edmund, Librarian to the Linnæan Society of London, Burlington House, Piccadilly, London, W. Mam., Orn.
Hartley, W. N., F.R.Sc. Soc., L. and E., F.I.C., F.C.S., Prof. of Chem. and of applied Chem., Sci and Art. Dept., Royal Coll. of Sci., Dublin, Ireland. Chem. and Spectroscopy.
Hartog, Marcus Manuel, Prof. N. H., Queen's Coll., 5 Roseneath, Cork, Ireland. Crustacea, Hydroids, Echinoderms.
Harvie-Brown, John A., F.R.S.E., F.Z.S., Memb. Brit. Orn. Union, etc., Duplinge, House Laphent Stillynghing N. B. Scot., Palæo. Vent.

Dunipace House, Larbert, Stirlingshire, N.B., Scot. Palao-Vert., Bibliog., Zool., Geog. Dist., Vert., Mammals, Orn., Ool., Herpetol., Ichth. C.

Haselwood, Jas. E., F.R.M.S., 3 Lennox Place, Brighton. Mic., Emb.,

Histol. C.

Hayward, Samuel, C.E., 22 Parliament St., Whitehall, London, S.W. Gen. and San. Sci.

Head, C. J., F.I.C., F.C.S., 178 Clapham Park Road, London, S.W.

Chem., Metall., Min.

Headley, C. B., F.E.S., Stonygate Road, Leicester. Bot., Mic., Zool., Ent., Lepid., Coleopt. Have from 400 to 500 species Lepid., all British. C. Ex.\*

Healey, George, Brantfield, Windermere. Geol., Min., Mic. C.\*
Heape, Walter, Morph. Lab., New Museums, Cambridge. Emb.
Hearder, Henry P., M.P.S., Plymouth, Devon. Chem., Elect.\*
Heath, Edw. A., M.D., F.L.S., F.E.S., etc., 114 Ebury St., London.
Bot., Ferns, Ent., Lepid., Coleopt. C. Ex.\*
Heath, Thos., B.A., 1st. Ast., Royal Obs., Edinburgh, Scotland. Meteo.,

Hellon, Robert, Analyst, Whitehaven. Min., Crystal., Lith., Chem., Me-

tall , Phys., Elect., Mic., Photog. Hemingway, W., Garden House, Old Mill, Barnsley (Yorkshire). Veg.

Palæo. Hemsley, W. B., F.R.S., A.L.S., Principal Assist., Herbarium, Royal Gardens, Kew.\*

Henderson, A., Liverpool. Ast.

Henderson, A., Inverpool. Ast.
Henderson, Prof. G. G., D.Sc., M.A., Prof. Chem., Glasgow and West of Scotland Tech. Coll., Glasgow, Scotland. Chem.\*
Henslow, Rev. George, M.A., F.L.S., F.G.S., etc., Drayton House, Ealing, London, W. Bot.: Phwn. Plants, Hort., Geol., Min. C.\*
Herbertson, Andrew G., Demonstrator in Plant Physiology, Univ. Coll., Dundee, Scot. Bot.: Plant and Veg. Physiol., Meteo.\*
Herdman, Wm., F.G.S., Care of J. Backhouse & Son, The Nurseries, York. Min.
Herdman, Wm. A., Prof. Nat. Hist. University Coll. Liverpool. Zool.

Herdman, Wm. A., Prof. Nat. Hist., University Coll., Liverpool. Zool., Gen. Biol., Morph., Invert. Anat., Histol., Moll., Radiates, especially Tunicata.

Herschel, Prof. Alexander Stewart, M.A., D.C.L., F.R.S., F.R.A.S., Observatory House, Slough, Bucks. Ast., Phys. (Heat).

Herschel, John, Col., R.E., F.R.S., Observatory House, Slough, Bucks. Ast.

Heyes, Rev. J. F., M.A., Oxford, F.C.S., F.R.G.S., 36 Dynham Road, W., Hampstead, N.W. Inorg. Chem., Physics, Geog., Geosophy, Geog. Dist., Missionary Publications. C. Maps.\*
Hicks, Henry, M.D., F.R.S., Hendon Grove, Hendon, London, N.W.

Geol.\*

Hickson, S. J., M.A., D.Sc., Downing Coll., Cambridge. Zool.\*

Hiern, Wm. Philip, M.A. (Cantab.), F.L.S., The Castle, Barnstable.

Bot.: Phæn. Plants.\*

Hilditch, Thomas, 12 Brownsville Road, Heaton Chapel, Stockport.

Inorg. Chem., Metall.

Hill, Dr. Alfred, Medical Officer of Health and City Analyst, Council

House, Birmingham. Sanitary Science.\*

Hillier, John Masters, Ass't., Mus., Royal Gardens, Kew. Econ. Bot.\*

Hincks, Rev. Thomas, B.A. (London), F.R.S., Leigh Woods, Clifton, Bristol. Hydroida, Polyzoa.

Hinde, George J., Ph.D., F.G.S., Ivythorn, Avondale Road, South Croydon, Surrey. Invert., Palæo., Geol., Zool., Sponges. C.\*

Hobson, Bernard, M.Sc., F.G.S., Owens Coll., Manchester. Geol., Petrog.\*

Hodges, John F., M.D., J.P., F.C.S., F.I.C., late Pres. of the Royal Academical Institution, Belfast, Prof. Agric. and Med. Jurisprudence, Queen's Coll., Belfast, Ireland, Gov't Analyst, Director of the Chemico-Agric'l Soc. of Ulster. Agric., Chem.\*
Hogg, Jabez, M.R.C.S., Eng., F.R.M.S., 1 Bedford Sq., W.C., London. Gen. Bot., Phys., Mic., Photog., Vert. and Invert. Anat., Histol.,

Invert. C.

Hogg, Dr. Rob., F.L.S., Editor of the "Journal of Horticulture," 99 St.

George Road, Pimlico, London, S.W.

Holloway, G. T., Assoc. Roy. Coll. Soc. (Lond.), F.I.C., F.C.S., Analyt. and Consulting Chemist, 57 and 58 Chancery Lane, London. Min.,

and Consulting Chemist, 57 and 58 Chancery Lane, London. Min., Inorg. Chem., Metall.\*

Holme, Charles, F.L.S., The Red House, Bexley Heath, Kent. Min., Crystall., Arch., Ethnol., Ent., Lepid. C. Ex.\*

Holmes, Edwin, London. Ast.

Holmes, E. M., F.L.S., Curator Mus. Pharmaceutical Soc., 17 Bloomsbury Square, London, W.C. Materia Medica, Phan. and Crypt. Bot. Will exchange Marine Algae, British and foreign, or Herbarium specimens of medicinal plant. specimens of medicinal plants.

Holmes, W. M., Glenside, 5 St. Peters Rd., Croyden, Surrcy. Sponges. Holmwood, Frederic, H.B M. Consul General, Victoria Mansions, Lon-

don, S.W. Zool., Ichthyol.\*

Holt, Ernest W. L., Marine Biol. Assoc., Plymouth. Ichthyol.\*

Hooker, Sir Joseph Dalton, late Director of the R. Bot. Gardens, Kew,
The Camp, Sunningdale, Berkshire.

Hooker, R. H., Assist. Sec. of Royal Statistical Soc., 9 Adelphi Terrace,

Strand, London, W.C.\*

Strand, London, W.C.\*

Hope, Chas. F., M.R.A.C., F.C.S., Prof., Lecturer upon Applied Agric. Sci., County Sec. Tech Education, Lindis Farm, Weyn outh. Bot., Geol., Chem., Physics, Mic., Photog., Gen. Biol., Emb., Anat., Spec: Analysis of soils and cattle foods. C. Ex.\*

Hopkinson, John, F.L.S., F.G.S., F.R. Mcteo. Soc., F.R. M.S.. The Grange, St. Albans. L. and F. W. Moll., Geol., Meteo., Water supply.\*

Horn, Rev. James, F.R.M.S., 16 Louis St., Chapeltown Road, Leeds. Desmids, Diatoms, Mic., Lethylol.

Horne, John, F.R.S.E., Geol Survey Office, Edinburgh, Scotland Geol. Howard, George, 21 Boston Castle Grove, Rotherham. Mic., Photog., Zool., Gen. Biol. C. Ex.\*

Zool., Gen. Biol. C. Ex.\*

Howard, J. L., D.Sc., Univ. Coll., Liverpool. Phys., Math., Chem. Howes, G. B., Asst. Prof. Zool., R. College of Sci., S. Kensington, Lon-

don, S.W. Morph., Vert. Anat. C. Ex. Howse, Richard, The Museum, Newcastle-on-Tyne. Geol., Palæo. Hoyle, William E., M.A., M.R.C.S., Owens Coll., Manchester. Osteol.,

Hoyle, William E., M.A., M.R.C.S., Owens Coll., Manchester. Osteol., Cephalopoda, Pentastomida.\*
Hudleston, Wilfrid H., 8 Stanhope Gardens, London, S.W. Geol., Min.\*
Hudson, Chas. T., LL.D., F.R.S., Lamorna, Dawlish. Rotifera.
Hudson, W. H. H., M.A., I.L.M., Camb., Fellow and Prof. of Math., King's College, London, W.C. Math., Phys.
Huggins, Wm., D.C.L. (Oxon.), LL.D. (Cantab., Edin. et Dubl.), Ph.D., F.R.S., Hon. F.R.S.E., F.R.A.S., 90 Upper Tulse-hill and Athenæum Club, S.W., London. Phys., Ast.\*
Hughes, Thomas McKenny, M.A., F.R.S., F.S.A., F.G.S., Woodwardian Prof. Geol., Univ. Cambridge, Trinity College, Cambridge.

Prof. Geol., Univ. Cambridge, Trinity College, Cambridge.

Hulke, John W., F.R.S., F.R.C.S. Eng., F.G.S., Soc. Phil. Cantab., Sec. to the Royal Lond. Ophthalmic Hospital, Surgeon to the Middlesex Hospital and Consulting Surgeon, 110 Old Burlington St., London, W. Fossil Reptiles.
Humphreys, John, F.L.S., L.D.S.I., 22 Newhall St., Birmingham.

Palæo., Mammals.\*

Hungerford, Dr. S. G., H.B.M. Army, 117 The Grove, Hammersmith, London, W. Moll.

Hunter, James, F.R.C.S.E., Lect. Physiol., School of Medicine, Edin-

burgh, Scotland.

Hunter, John, F.I.C., F.C.S., F.R.P.S., Lecturer on Agric'l Chem., Edinburgh Agric. Curriculum, Mint House Medical School, Edinburgh, Scotland. Chem. Org. and Inorg., Mic., Soil Bacteriol. C.\*
Hurst, John Thomas, Civil Engineer, Raymond Villa, Geraldine Road, Wandsworth, London. Fungi, Geol., Phys., Mic., Gen. Biol.,

Wandsworth, London. Fungt, Geot., 1 rigs., Inter, Emb., Protozoa.

Hutcheson, John C., 8 Lansdowne Crescent, Glasgow, Scotland. Mic. Hutton, E. A., M.A., F.R.M.S., Mottram-in-Longdendale, N. Bot., Mic., Biol., Histol., Protozoa. C.\*

Huxley, T. H., The Rt. Hon., P.C., F.R.S., Dean of the Royal Coll. of Science, South Kensington, London.\*

Science, South Kensington, London.\*

Isherwood, Thomas, B.A., F.C.S., Univ. School, Southport.

Jack, James, F.L.S., 102 High St., Arbroath, Scotland. Algæ. C. Ex.\*

Jackson, Charles L., M. Inst. C.E., F.L.S., F.R.M.S., F.Z.S., Pres. of

Bolton Mic. Soc., Hillfold, Bolton. Palæo., Mic., Zool., Emb., lehth., Ent., Crustacea, Moll., Radiates, Sponges, Protozoa.

Jackson, John R., A.L.S., Curator of the Museums, Museum Royal

Gardens, Kew. Econ. Bot.\*

Jackson, W. Hatchett, M.A., F.L.S., Pen Wartha, Weston Super Mare, and Keeble Coll., Oxford. Mic., Zool., Gen. Biol., Mornh., Emb.

and Keeble Coll., Oxford. Mic., Zool., Gen. Biol., Morph., Emb., Invert. Anat., Ent., Protozoa.

Janson, Oliver E., 22 Perth Road, Stroud Green, London, N. Ent., Spec. Coleopt-Cetonida.\*

Japp, Francis R., LL.D., F.R.S., Prof. Chem., University Aberdeen,

Japp, Francis R., Lille, F.R.S., Prof. Chem., University Aberdeen, Scotland. Org. Chem.\*
Jelly, Miss E. C., F.R.M.S., London, Hatchlands, Red Hill, Surrey. Bryozoa, recent and fossil. C. Ex.
Jenner, J. H. A., 4 East St., Lewes. Ent. Dipt.
Jennings, A. Vaughan, Demonstrator in Gcol., Science School, London, Lecturer on Comp. Anat., Birkbeck Inst., Science School, So. Kensington, London, S.W. Bot., Palæo, Geol., Zool., Biol.
Jevine, R. Royston, Granton, Scotland. Oceanography.
Johnson, Alice, Llandaff House, Cambridge. Morph., Emb., Anat.\*

Johnson, R. C., F.R.A.S., 46 Jermyn St., Liverpool. Ast.\* Johnson, T., D. Sc., F.L.S., Royal Coll. of Science, Stephen's Green,

Dublin, Ireland. Bot.

Johnson, Rev. William, F.L.S., 21 Wesley Crescent, Shildon, via Darlington. Bot: Lichens, Algæ.\*
Johnston, Etta I., Bot. Studio, Univ. Coll., Dundee, Scotland.

Dist. of Plants.

Jolliffe, Chas. H., Scientific Brewer, St. Ann's, St. Helen's, Lancashire.

Org. Chem., Mic., Photog., Meteo.\*

Jones, John Viriamu, M.A. (Oxon.), B.Sc. (Lond.), Prin. Univ. College of S. Wales and Monmouthshire, Cardiff, S. Wales. Phys., Elect.\*
Jones, Thomas Rupert, F.R.S., F.G.S., 10 Uverdale Road, King's Road,

Chelsea, London, S.W. Palao., Geol., Anth., Arch., Crustacea, Protozoa.\*

Judd, J. W., F.R.S., Prof. of Geol., Royal School of Mines, S. Kew, London. Geol.

Julio, Guardia, F.R.M.S., Helston House, Royal Road, Clapham, London, S W. Bot: Phan. Plants, Mic., Photog., Herpetol.

S.W. Bot: Phan. Plants, Mic., Photog., Herpetol.

Justen, F., F.L.S., 37 Soho Sq., London. Buys all new works on Nat.

Hist. (especially Botany), in any language.\*

Kaines, J., M.A., D.Sc., F.S.Sc., 8 Osborne Road, Finsbury Park, London, N. Anth., and Positivism.\*

Kane, W. F. De Vismes, M.R.I.A., F.E.S., Drumreaske, Monaghan, Ireland. Mic., Zool., Geog. Dist., Arch., Orn., Ent., Lepid. C.

Kappel, A. W., F.L.S., F.E.S., Asst. Librarian Linnean Soc., Burlington House, Piccadilly, London, W., and 5 Burlington Gardens, Chiswick, London, W. Ent.\*

Keeping, H., Woodwardian Mus., Cambridge. Geol.\*

Kent, Adolphus Henry, A.L.S., F.R.H.S., 544 Kings Road, Chelsea, London, S.W., Orchideæ, Conifere.\*

London, S.W., Orchideæ, Coniferæ.\*

Kenward, T., F.S.A., 208 Hagley Road, Birmingham. Welsh and English. Antiquities,

Kermode, P. M. C., Advocate, M.B.O.U., M.I.P.O.C., F.S.A., Scot., Hillside, Ramsey, Isle of Man. Gen. Bot., Geog. Dist., Anth., Arch., Orn.

Kew, H. Wallis, F.Z.S., F.E.S., 5 Giesbach Road, Upper Holloway, London, N. Zool., Ent., Moll.\*
Keys, James H., 7 Whimple St., Plymonth. Coleopt. C. Ex.\*
Kinahan, G. H., C.E., M.R.I.A., F.R.G.S.I., Geological Survey of Ire-

Kinanan, G. H., C.E., M.K.I.A., F.K.G.S.I., Geological Survey of Freland, Ireland Geol., Anth., Arch., Eth.

Kinch, Edward, F.I.C., F.C.S., etc., Prof. Chem., Royal Agric. Coll., Cirencester. Min., Agric. Chem. C.

King, Falconer, F.I.C., Analyst to City of Edinburgh, School of Medicine, Edinburgh, Scotland. Chem., Mic.

King, James J. F. X., F.E.S., 207 Sauchiehall St., Glasgow, Scotland. Lepid., Neuropt., Coleopt.\*

King, Thos., Prof. of Bot., Anderson's College, 110 Hill St., Garnethill, Glasgow, Scotland. Rot.

Glasgow, Scotland. Bot.

Kingsley, Mrs. Chas., Fachbrook Mallory, Leamington. Hort.

Kirby, W. F., F.L.S., F.E.S., Ass't in Zoological Dept., British Museum, So. Kensington, London, S.W., 5 Burlington Gardens, Chiswick, London, W. Ent.\*

Kirk, Sir John, G.C.M.G., K.C.B., F.R.S., Sevenoaks, Kent. Phan.

Bot., Photog., Zool., Gen. Biol., Geog. Dist., Morph., Orn.
Kirkby, Wm., Fellow of the Linnæan Soc., Fellow of the Royal Microscopical Soc., 113 Market St., Manchester. Mic., Histol.
Kirkpatrick, R., British Museum, N.H., Cromwell Road, London, S.W.

Polyzoa, Hydrozoa,\*

Kitchener, Francis E., Oulton Hall, Stone, Staff. Bot: Phan. and Crypt. Plants.\*

Kitching, John, Branksome Hall, near Darlington. Bot., Hort., Phys., Zool., Ent.

Klein, E., Lectner on Gen. Anat. and Physiol., Mcd. Sch. St. Bartholomew's Hospital, London. Vert., Morph., Histol.
Klein, Sydney T., R.I., F.L.S., F.R.A.S., F.E.S., F. Ast. Soc. of Pacific Geol. Assoc., Middlesex Nat. Hist. and Sci. Soc. etc., etc., Stanmore Observatory, Great Stanmore, Middlesex.

Knight, G. A. Frank, M.A., M.C.S., Rosenlaui, Bearsden, Glasgow, Scot-

land. Mollusks.\*

Lake, P., M.A., F.G.S., St. John's College, Cambridge. Geol.\*
Lambert, Rev. Willis F. A., M.A., F.L.S., F.R.G.S., Peterchurch Vicarage, Herefordshire. Alaw.

Langley, J. N., M.A., F.R.S., Trinity College, Cambridge. Physiol.,

Histol.

Langton, Herbert, M.R.C.S., Eng., M.B.O.U., 11 Marlborough Place, Brighton. Vert. Palæo., Vert. Anat., Orn., Ool., Tax. C. Ex. Lankester, E. Ray., M.A., LL.D., F.R.S., Prof. Comp. Anat., Univ. Mus., Oxford. Vert. Palæo., Mic., Gen. Biol., Morph., Emb., Anat.,

Osteol., Histol., Worms, Sponges, Protozoa.

Lapraik, Wm., F.C.S., F.I.C., Lecturer on Metall. and Chem. at the National Dental Hospital, Great Portland St., London, W.\*
 Latham, W. B., Curator of Botanic Gardens, Edgarston, Birmingham.

Bot: Phan. and Crypt. Plants, Ferns. Law, F. T., 254 Kentish Town Rd., London, N. W. Bot., Geol., Mic.,

Photog., Ent., Sponges. Lawrence, Geo. F., 55 High St., Wandsworth, London, S.W. Anth., Arch. C.

Lawton, William, 29 Victoria St., Derringham, Hull. Ast., Meteo. C.\* Layard, Edgar Leopold, C.M.G., F.Z.S., "Otterbourne," Budleigh, Saltterton, Devoushire. L. and F. W. Shells. C. Ex.\*

Layton, C. E., 56 Farrinton St., London. Phys., Mic. Learoyd, Samuel, Pres. Huddersfield Literary and Sci. Soc., F.G.S., Sherwood House, Huddersfield. Min., Precious Stones, Shell and Stone Cameos, Agates, Pearls, Pearlbearing Shells, Con. C. Ex.\*

Lees, Edw. B., Lieut. Col., B.A., Thurland Castle, Kirkby, Lonsdale. Bot., Orn., Ool., Ichth., Ent.\*

Leipner, Prof. Adolph, Hampton Park, Bristol. Bot.\*

Levick, John, Livingstone Rd., Handsworth, Birmingham. Mic., Gen. Bioh., Protozoa, Infusoria.\*

Lewis, Richard T., F.R.M.S., ctc., 4 Lyndhurst Villas, The Park, Ealing, London, W. Mic., Ent., Hemipt., Orthopt., Arach. C. Ex.\*

Ley, Rev. A., M.A., Sellack Vicarage, Ross, Herefordshire. Bot. Leyland, J. & Son, Richmond St., Liverpool. Tax.\*

Lilford, The Lord, Lilford Hall, Oundle, Norths. Orn.

Lilley, L. Benj., Prof. Chem. and Mic., Roxborough Park, Harrow-on-the-Hill, Middlesex. Chem., Mic. C. Lindley, Wm., 74 Shootershill Road, Blackheath, S.E.\*

Lindsay, Robt., F.R.H.S., Curator Royal Bot. Gardens, Edinburgh, Scotland.

Linter, Miss J. E., Arragon Gloss, Twickenham. Con. C.
Linton, Edw. F., M.A., Oxon., Crymlyn, Bournemouth. Phanerogams
(European), Ast. C.\*
Linton, William Richardson, M.A., Shirley, Derby. Phan. Plants, Ferns.
C. Ex. (European).

Lister, Arthur, F.L.S., Lcytonstone, Essex. Bot. (Mycetozoa).

Lister, J. J., St. John's Coll., Cambridge. Zool.

Liveing, George Downing, M.A., Prof. Chem., Newnham, Cambridge.\*
Lodge, Oliver Joseph, D.Sc., F.R.S., Prof. Phys., University Coll. of
Liverpool, 2 Grove Park, Liverpool. Phys., Elect., Chem., Ast.\*
Lomax, A. E., 56 Vauxhall Road, Liverpool. Bot. C. Ex. European

wild plants for those of U. S., Asia, Australia and South America.\*

Long, Harry Alfred, 52 Jane St., Blythswood Sq., Glasgow, Scotland.

Educationalist.\*

Longstaff, G. B., M.A., M.D., F.R.C.P., Highlands, Putney Heath, London, S.W. Bot., Chem., Lepid. C.
Lovibond, Thos. W., F.I.C., F.C.S., The Tyne Brewery, Newcastle-on-Tyne. Chem., Mic.\*
Lowne, Benj. T., Lect. on Physiol., Middlesex Hosp. Med. School, 18 St. Quintin Ave., N. Kensington, London, W. Gen. Biol., Emb., Histol., Physiol.

Lubbock, The Rt. Hon. Sir John, M.P., F.R S., D.C.L., LL.D., High Elms, Down, Kent. Gen. Ent , Hymenopt., Formicidæ, Arch.\*

Lukis, Capt. F. D., The Grange, Guernsey. Arch., Geol. Lynch, R. Irwin, A.L.S., Curator of the Botanic Garden, Cambridge.\*

Lynn, William T., B.A., F.R.A.S., Blackheath, S.E. Ast.
Lynn, William T., B.A., F.R.A.S., Blackheath, S.E. Ast.
Lyon, James, Prof. of Eng. (M.A., Clare Coll., Cambridge), Royal Collof Sci., Stephen's Green, Dublin, Ireland. Elect., Photog.\*

Macadam, W. Ivison, F.R.S.E., F.C.S., F.I.C., etc., Surgeon's Hall, Prof. Chem., New Veterinary College, Edinburgh, Scotland.

Chem., Geol., Agric. C.\*

MacAlister, Donald, M.A., B.D., B.Sc., St. John's College, Cambridge.

Mac Alister, Donald, M.A., B.D., R.Sc., St. John's College, Cambridge. Math., Physics, Physiol., Pethol.
Macdonald, J. D., M.D., F.R.S., 81 Messina Ave., W. Hampstead, N.W. Bot., Invert.
Mackay, Donald, Portnacon, Durness, Scotland. Bot., Geol., Zool., Geog. Dist., Ichth. C.
Maclaine, M. G., Lochbine, Isle of Mull, Scotland. Geol., Min., Zool., Orn., Ichth. C. Ex.\*
MacMunn, Chas. Alexander, M.A., M.D., F.C.S., F.R.M.S., Oakleigh, Wolverhampton. Biological and Medical Applications of Spectroscape, Physiol. Chem. Zool., Bot., Comp. Physiol.\*

scope, Physiol., Chem., Zool., Bot., Comp. Physiol.\*
Magnus, Sir Philip, B.Sc., B.A., City and Guilds of London Inst., Exhibition Road, London, S.W.

Mallet, F. R., Superintendent, Geological Survey of India (Retired), 18,

The Common, Ealing, London, W. Geol., Min.\*
Malley, Dr. A. C., B.A., M.B., B.C.L., F.C.D., F.R.M.S., Munslow, Craven Arms, Salop. Diatoms, Mic., Photog., Gen. Biol., Histol.,

Pathol. C.\*

Mapother, E. D., M.D., 32 Cavendish Square, London. Fungi, Chem.

Mapplebeck, John E., F.L.S., F.R.H.S., Bronddwynant, W. Dolgelley,
North Wales. Bot., Ferns. C. Ferns.

Markby, J. R., 7 University St., London, W. C. Geol. Marquand, E. D., Fermaine House, Guernsey. Bot. C.

Syst. and Physiol. Bot. Marr, Thos. R., Univ. Coll., Dundee, Scotland.

(Cryptogamia), Hort.\*

Marriott, William, Ass't Sec. Royal Mcteo. Soc., 22 Great George St., Westminster, S.W. Meteo.\*

Marsden, H. W., 21 New Bond St., Bath. British, European and Exotic Bird Skins and Eggs, Lepid., Coleopt., Orthopt., Naturalist's Apparatus and Books of all kinds. C.\*

Marsh, J. E., M.A., Univ. Mus., Oxford.\*

Marshall, A. Milnes, Prof. Zool., Owens Coll. Manchester.\*

Marshall, Rev. E. S., M.A., F.L.S., Milford Vicarage, Godalming.

Bot: Phæn. Plants, Ferns. C. Ex.

Marshall, W. P., M. Inst. C.E., Richmond Hill, Birmingham. Mic.\*

Marth, A., Markree Colloony, Ireland. Ast.

Martin, Richard Biddulph, M.A., M.P., Fellow and Late Pres. Inst. of
Bankers, F.R.G.S., F.A.I., J. P. (Kent), 10 Hill St., W., London and Chiselhurst. Anth.\* Martindale, G. E., Liverpool College, Shaw St., Liverpool. Desires to

exchange.

Martindale, Joseph Anthony, Danes Road, Stavely, Kendall. Lichens. Mason, Philip B., Burton-on-Trent. Brit. Zool. and Bot. Masters, Maxwell T., Cor. of the Inst. France, M.D., F.R.S., Mount Ave., Ealing. Bot., Hort.\*

Maunder, E. W., F.R.A.S., Asst. Supt. Physical Dept., Royal Obs., Greenwich, London, S.E., Editor "Journal," Brit. Ast. Assoc.

Maw, W. H., 18 Addison Road, Kensington, W. Ast.

Mawley, Edward, Rosebank, Berkhamsted, Herts. Meteo.\*

Maxwell, Theodore, M.D., B.Sc., 29 Woolwich Common, London.

Philology, Photog., Phys.\*

Mayall, J., Jr., Sec. Royal Mic. Soc., 224 Regent St., London. Mic.\*
 McAlpine, A. N., B.Sc. (Lond.), Mints House Medical Sch., Edinburgh, Scotland. Bot., Soil Bacteriol. Lecturer Agric. Bot., Edinburgh Agric. Curric.

McArthur, John, F.R.S.E., F.C.S., Belmont Works, Battersea, London.

S.W. Org. and Inorg. Chem. McDakin, Gordon, Captain (Retired) Black Watch, 15 Esplanade, Dover. Bot., Ferns, Mosses, Fungi, Palao., Geol., Chem., Metall., Elect., Mic., Photog., Meteo. C.\* McIntosh, Prof. W. C., M.D., LL.D., F.R.S., 2 Abbotsford Crescent, St.

Andrews, Scotland. Annelida, Development and Life Histories of the Food Fishes, Marine Zool.

McKenzie, Alex., B.Sc., University, St. Andrews, Scotland. Chem. McLachlan, Robert, F.R.S., Westview, Clarendon Road, Lewisham, London, S.E.

Medwin, A. George, M.D., L.R.C.P., Lond., F.L.S., F.Z.S., M.R.C.S., L.D.S., etc., 34 Bruton St., Berkeley Sq., London, W. Bot., Ent.\* Meek, Alexander, B.Sc., F.Z.S., British Linen Co.'s Bank Buildings,

Dundee, Scotland. Zool., Gen. Biol., Morphol., Vert., Invert. Anat., Bot. C.\*

Meiklejohn, John William Sinclair, M.D., R.N., F.L.S., 105 Holland Road, Kensington, W., London. Phæn. Plants, Ferns, Algæ, Vert. Palæo., Orn., Ool., Lepid., Crust., Moll. C.\*
Melliss, John Charles, F.G.S., F.L.S., Mem. Inst. C.E., Author of "Purification of Water-carried Sewage," "St. Helena, an Account of the Nat. Hist. of the Island," etc., 232 Gresham House, Old Broad St. London, E.C.\*

Broad St., London, E.C.\*

Melvill, J. Cosmo, A.M., F.L.S., F.E.S., Kersal Cottage, Prestwich, also care of Messrs. G. and R. Dewhurst, Manchester. Bot : Phan and Crypt. Plants, Ferns, Mosses, Fungi, Algæ, Photog., Geog. Dist.; Ent: Lepid., Coleopt., Moll. C.\* Merchant, W. Lawton. 29 Victoria St., Derringham, Hull.\* Merivale, Prof. John Herman, M.A., Durham College of Sci., Newcastle-

on-Tyne. Mining.\*

Meyer-Darcis, Georges, Emdsleigh, 5 Highfield Hill, Upper Norwood, London, S.E. C. Ex. Buprestidæ.

Miall, Louis Cornplou, F.L.S., Prof. Biol., 5 Montpellier Terrace, Cliff-

road, Leeds. Ganoids, Anat. Michael, A. D., F.L.S., F.Z.S., F.R.M.S., 9 Cadogan Mansions, Sloane Sq., London. Acarina. C.

Michael, Mrs. Helen Abbott, Torwood, Bonchurch, Islc of Wight. Plant

Chem. C. Ex.\*
Miers, Henry A., M.A., F.G.S., F.C.S., Nat. Hist. Mus., S. Kensington, London. Min., Crystall., Lithol.\*

Millais, John G., F.Z.S.L., Lieut. Seaforth Highlanders, Barracks, Cork, Ireland. Zool., Orn. C.
 Milligan, Seton, M.R.I.A., F.R.S.A. (Ireland), 1 Royal Terrace, Bulfast.

Irish Antiq.

Mills, F. W., F.R M.S., Thornleigh, Huddersfield. Bot: Crypt. Plants,
Diatoms, Mic. C. Ex.\*

Mills, John, Editor of Science and Art, 11 Henrictta St., W.C., London, Ast.

Milne, G. A., 24 New Queen St., Scarborough, Yorkshire. Org. and Inorg. Chem., Elect., Mic.
 Mitchell, Sir Arthur, K.C.B., M.D., LL.D., 34 Drummond Place, Edin-

burgh, Scotland. Meteo., Anth., Arch.\*

Mitchell, Fred. S., Hornshaws, Clitheroe, Lancashire. Orn., Ool.

Mitchell, Rev. Hugh, LL.D., F. Ch. Manse, Craig, Montrose. Geol., Palæo.

Mitchell, John, B.D., F.R.A.S., 57 Parkgate Road, Chester. Meteo., Ast. Mitchells, J.S., B.Sc., F.C.S., F.I.C., Prof. Chem., Univ., Leeds. Mitchinson, Rt. Rev. and Ven. John, D.C.L., D.D., Sibson Rectory, near

Atherstone, Warwickshirc. Bot., Geol.\* Mivart, St. George, Ph.D., M.D., F.R.S., Hurstcote, Chilworth, Surrey. Bot., Zool., Morph., Emb., Vert. Anat., Mammals, Herpetol., Osteol., Myol.

Monck, W. H. Stanley, M.A., B L., Late Prof. of Moral Philosophy, T.C.D., 16 Earlsfort Terrace, Dublin, Ircland. Palæo., Strat. and

Physical Geol., Meteo., Ast.\*

Moody, G. T., D.Sc. (Lond.), F.I.C., F.C.S., 18 Therapia Road, Honor Oak, London, S.E. Strat. and Phys. Geol., Min., Crystall., Org. and Inorg. Chem. C. Ex.

Moore Bros., 49 Hardman St., Liverpool, Osteologists and Taxidermists.

Disarticulated, Mounted Skulls, Skeletons, Limbs, and Crustacea a

specialty.

Moore, F. W., Royal Botanical Gardens, Glasneven, Co. Dublin, Ireland.

Eot., Hort.

Moore, Henry Cccil, Surgeon, 26 Broad St., Hereford. Bot: Phan. and Crypt Plants, Ferns, Mosses, Fungi, Lichens, Alga, Geol., Lithol.\*

Moore, Spencer Le M., B.Sc., F.L.S., Sunnydene, Eastbourne, Sussex.
 Bot: Phæn. and Crypt. Plants, Gen. Biol.\*
 More, Alex. G., F.L.S., F.R.S.E., M.R.I.A., 74 Leinster Road, Dublin, Ex-Curator of the Nat. Hist. Mus. in the Sci. and Art Mus., Dublin,

Ex-Curator of the Nat. Hist. Mus. in the Sci. and Art Mus., Dublin, Ireland. Orn., Brit. Bot.\*

Morison, Bruce, F.R G.S., F.R.H.S., F.Z.S., F.I.Inst., 20 Clanricarde Gardens, London, W. Zool.\*

Morris, D., M.A., F.L.S., Ass't Dir. Royal Botanic Gardens, Kew.\*

Morriss, Fred. W., Cambridge House, Widcombe Hill, Bath. Mic., Bibliog., Arch., Philol.\*

Morton, George H., F.G.S., 209 Edge Lane, Liverpool. Invert. Palaco., Geol. Min. Lithol. C.\*

Geol., Min., Lithol. C.\*
Mott, A. J., F.G.S., Detmore, Charlton Kings, Cheltenham. Statistics.

Mott, Frederick T., F.R.G.S., Birstal Hill, Leicester. Phan. and Crypt. Bot., Edible Fruits. C. Ex. Desires information about all edible fruits which are unknown in England. Also correspondence on the working of museums, large or small.\*

Muir, Rev. John J, Waterloo, Liverpool. Bot., Zool.

Muirhead, Henry, M.D., LL.D., F.F.P.S.G., Bushy Hill, Cambuslang, Lanarkshire, Scotland. Psychol. and Phys. Philol.

Müller, Prof. G., Oxford.

Mummery, John H., 10 Cavendish Place, London, W. Mic., Photog., Histol.\*

Munro, John M. H., D.Sc., Prof. Chem., Downton Coll. of Agric., Churchfields, Salisbury. Min., Chem., Mic., Photog., Bacteriol., Soil Microbes.

Munro, Rev. Robert, M.A., B.D., F.R.S.E., F.S.A., Old Kilpatrick, Dunbartonshire, Scotland. Palæo., Geol., Anth., Arch., Philol.\*
 Murray, G. R. M., F.L.S., British Museum, S. Kensington, London.

Cryptogams.\*

Murray, John, Dir. and Editor Challenger Expedition Reports, Challenger Office, Edinburgh, Scotland. Oceanography, Deep-Sea Deposits, Marine Zool.

Napier of Magdala, Robt., Lord, Field Marshal, G.C.B., G.C.S.I, 38

Cornwall-gardens, South Kensington, London, S.W.

Narramore, Wm., F.L.S., 5 Geneva Road, Elm Park, Liverpool. Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Desmids, Mic., Gen. Biol., Histol.

Nelson, T. H., Sandringham House, Redcar, Yorks. Zool., Orn. C. Ex.\*

Neve, Chas. E., Bethnall House, London, E. Biol.

Neve, J. R., Campden, Gloucestershire. Bot. Nevins, Dr. John Birkbeck, 3 Abercromby Sq., Liverpool. Bot., Sanitary Statistics, Rotatory Storms in British Isles and Voyages in Hudson Bay, Recent Locust Plagues in Cyprus and U. S. A.

Nevinson, Basil Geo., Barrister, M.A., F.Z.S., F.E.S., 3 Tcdworth Sq. Chelsea, London, S.W. Ent., Coleopt. C.
Newton, Alfred, M.A., V.P.R.S., V.P.Z.S., Prof. Zool., Univ., of Cambridge, Magdalene Coll., Cambridge.

Newton, Edwin Tulley, Palæontologist to H. M. Geol. Survey, Museum,

Jermyn St., London, S. W.
Newton, Richard Bullen, F.G.S., British (Natural History) Museum,
Cromwell Road, South Kensington, London, S.W. Invert. Palæo.
Newton, Wm., Ph.D., F.I.C., F.C.S., Analyst and Consulting Chemist,
39 Mineing Lane, London, E.C., Min., Org. and Inorg. Chem.,

Metall., Phys.\* Nichols, A. R., B.A., M.R.I.A., Science and Art Dept., Dublin, Ireland.

Geol., Zool., Invert. Anat., Moll.

Nicholson, George, Cur. Royal Bot. Gardens, Kew, London, W.

Nicholson, H. Alleyne, Regius Prof. Nat. Hist., Univ., Aberdeen, Scot-

 Nat. Hist., Palæo.
 Noble, Capt. W., J.P., F.R.A.S., F.R.M.S., Vice-Pres. and ex-Pres. of the British Ast. Assoc., Hon. Assoc. Liverpool Ast. Soc., Hon. Memb. Trinity Hist. Soc., Dallas, Tex., U.S. A., etc., etc., Forest Lodge, Maresfield, Uckfield, Sussex. Palæo., Geol., Mic., Photog., Ast.\*

Noel. Chas. W. F., Earl of Gainsborough, B.O.U., Exeter Park, Oakham.

Bot., Hort. Orn., Ool., Tax.

Norman, Rev. Dr. Alfred M., M.A., D.C.L., F.R.S., F.L.S., etc., Rectory Burnmoor, Fence Houses, Co. Durham. Myriop., Crustacea, Worms, Moll., Radiates, Sponges, Protozoa. C. Ex. Arctic Pacific Invert. and Marine Mollusca of N. E. America in ex. for other Marine Invert.\*

Norris, Richard, M.D., Birchfield, Birmingham. *Physiol.*Obach, Eugene F. A., Ph.D., F. I. C., F.C.S., 2 Victoria Road, Old Charlton, Kent. *Gen. Chem.*, *Phys.*, *Elect.* C. of books and pamphlets on Chem.\*

O'Hara, Richard, Lieut. Colonel, late Royal Artillery, West Lodge, Galway, Ireland. Diatoms, Mic., Photog. O Keeffe, Cornelius, F.C.S., F.I.C., Garryhesta House, Farran, Co. Cork,

Ireland. Chem. Oldroyd, M. A., Abbey St., Faversham, Kent. Geol., Arch., Moll. C. Oliver, Daniel, Prof. Bot., Univ. Coll., London, Royal Gardens, Kew. Oliver, F. W., Prof. Bot., Univ. Coll., London, 10 Kew Gardens Road,

Kew, London. Bot.

Ord, Geo. W., Assist, Kelvingrove Mus., 21 Kennedy St., Glasgow, Scotland. Bot., Ent. C.\*
O'Reilly, Prof. Jos. P., Royal College of Science, Dublin, Ireland.

Mining and Min.

Ormerod, Miss Eleanor A., F.R. Met. Soc., F.E.S., Late Consulting Ent., Royal Agric'l Soc. of England, Torrington House, St. Albans. Econ. Ent.\*

Osborne, John Allen, M.D., J.P., Milford, Letterkenny, Co. Donegal, Ireland. Gen. Biol., Emb. of Invert., Ent: Coleopt.\*

Painter, William Hunt, Knypersley Hall, near Congleton. Bot: Phan.

and Crypt. Plants, Invert.

Palmer, Henry, F.R.M.S., F.I. Inst., London, etc., etc., M.E., The Manor House, Ferry Hill. Elect., Mic., Photog., Mining.\*

Parfitt, E., Devon and Exeter Inst., Exeter. Ent., Zool., Bot.

Parke, George Henry, F.L.S., F G.S., College Grove, Wakefield, York-Recent and Fossil Moll. and Echinoderms. C. Ex. British for foreign spec.

Parker, R. H., F.C.S., Pharmaceutical Chemist, 35 Clifton Road, Maida Vale, London, W. Bot., Phan. Plants, Diatoms, Inorg. Chem.,

Mic. C. Ex.\*

Parker, T., 45 Lower Mosley St., Manchester, and 2 East Hill St., Greengate St., Oldham. Palæo.

Parker, Thos. Jeffrey, care of Mr. E. Petherick, 17 Warwick Sq., Paternoster Row, London. Sharks. Crustacea, Anat., etc., etc.

Parker, Wm. Kitchen Crowland, Trinity Road, Upper Tooting, S.W., London. Morph., Vert., Skulls.

Parker, Prof. W. N., Ph.D., F.Z.S, Univ. College, Cardiff, S. Wales. Zool.

Paterson, A. M., Prof. Anat., Univ. Coll., Dundee, Scotland.\* Paton, D. Noël, M.D., F.R C.P.E., Lect. Physiol., School of Medicine, Super. of the Research Lab. of the Royal Coll. of Physicians, Edinburgh, Scotland.\*

Paton, James, F.L.S., Supt. Mus and Galleries, Glasgow, Kelvingrove Mus., Glasgow, Scotland. Bot., Chem.\*
 Patterson, Robert, M.B.O.U., 57 High St., Belfast, Ireland. Zool., Vert.,

Mammals, Orn., Ool. C. Ex. Patterson, R. Lloyd, F.L.S., M.B.O.U., Belfast, Ireland. Orn.

Pattinson, J. & H. S., 75, The Side, Newcastle-on-Tyne. Analyt. Chemists \*

Pavy, Frederick W., M.D., LL.D., F.R.S., Formerly Lect. on Physiol., Comp. Anat. and Zool., Guy's Hospital, 35 Grosvenor Street, Lon-

don, W.
Paxton, Dr. F. V., Pallant, Chichester. *Mic.*Peach, Benj. Neeve, Esq. F.R.S.E., Geol. Survey of Scotland, Geol. Surv. Office, Sheriff Court Bldgs, Edinburgh. Peal, C. N., F.L.S., F.R.M.S., Fernhurst, Mattock Lane, Ealing, Lon-

don, W. Diatomacee, Polyzoa.\*

Pearce, Horace, F.R.A.S., F.G.S., F.L.S., The Limes, Stourbridge, Worcestershire. Spec. Phan. Plants, Ferns, Archaic and Glacial Geol., Antiq., Ast., Arch. C.\*

Pearson, Wm. Henry, 3 The Polygon, Eccles, Manchester. Hepatica.\* Peek, Cuthbert E., M.A. (Cantab.), F.S.A., Rousdon, Lyme-Regis. Meteo., Ast., Anth., Arch., Ethnol., Ethnog.
Pendlebury, Wm. H., M.A. (Oxon.), F.C.S., 6 Gladstone Terrace, Dover.

Inorg. Chem., Metall., Physics, Elect., Photog., Meteo.\*
Percival, John, M.A., F.L.S, Carperby, Aysgarth, Yorkshire. Diseases of Plants.\*

Petrie, Capt. Francis W. H., F.G.S., etc., Ed. Journal of Victoria Philosophical Inst. of Gt. Brit., 12 Gloucester Walk, Campden Hill, Ken-

sopinion, London, W.\*
Pettigrew, James Bell, M.D., Ll.D., F.R.S., Prof. Med. and Anat., Univ. of St. Andrew, Scotland. Anat., Physiol., Physics.
Phillips W. H., F.R.H.S., Holywood. Co. Down, Ireland. Ferns.
Pickering, Percival Spencer U., M. A., F.R.S., 48 Bryanston Sq., Lon-

don.

Pidgeon, Daniel, C.E., F.G.S., "The Long House," Letherhead, Surrey. Geol., Gen. Biol., Geog. Dist., Morphol., Emb. C. Shells. Ex.\*
Pilley, John I., Ph.D., LL.D., F.E.I.S., F.C.S., F.R.M.S., Lecturer on Chem., Dulwich, London, S.E. Org. and Inorg. Chem., Gen. Biol.,

Piper, George H., F.G.S., Court House, Ledbury, Herefordshire. Geol., Photog.\*

Palæo., Arch. C.\* Pitt, John Marsh, Shamrock Villa, Mitcham, Surrey. Bot., Phys., Mic.,

Meteo., Ast., Anth. C. Ex.\* Plowman, Thomas, Nystuen Lodge, Bycullah Park, Enfield, London, N.

Vert., Invert., Mic., Zool., Gen. Biol., Morph., Emb., Histol.
Plowright, Ch. B., M.D., 7 King Street, King's-Lynn, Norfolk. Mycol.\*
Pocklington, Henry, F.R.M.S., Memb. British Assoc'n, etc., 20 Park
Row, Leeds. Phan. Plants, Phys., Mic.. Photog. C.\*
Poland, John, F.R.C.S., Eng., F.L.S., 4 St. Thomas's St., London Bridge,

London, S.E.\*

Pole, William, F.R.S., Athenæum Club, London, S.W. Mech. Science.
Pope, James T., 2 Bridaig Avc., Dingwall, Scotland. Ast.\*
Potter, Michael C., M.A., F.L.S., Prof Bot., Durham Coll. of Sci., Newcastle-on-Tyne. Bot., Gen. Biol.\*
Poulton. Edw. B., F.R.S., Wykcham House, Oxford. Morphol., Emb., Mammals, Histol., Ent., Lepid. Desires eggs or living pupæ of

Ceratonia quadricornis.

Praeger, R. Lloyd, B.E., M.R.I.A., Holywood, Co. Down, Ireland. Bot.,

Ferns, Ool., Mollusks. C. Ex. Preston, Rev. T. A., M.A., Thurcaston Rectory, Leicester. Ent., Bot., Meteo.\*

Prestwich, Joseph, M.A., LL.D., F.R.S., etc., Shoreham, near Sevenoaks,

Kent. Geol. (Quarternary and Tertiary).

Pridham, Wippell, P. H., LL.M., B.A. (Camb.), F.Z.S., Goldsmith Bldg.,
Temple, London. Orn., Ool., Tax. C.

Prince, Prof. Edw. E., Glasgow, Scotland. Development of Fishes and

Marine Zool.

Prior, Dr. R. C.A., 48 York Terrace, London, N.W. Bot., Arch. C.\* Prior, Geo. Thurland, M.A., British Museum (Nat. Hist.), South Kensington, London, S.W., Min., Inorg. Chem.

Pritchard, Rev. Chas., Oxford. Ast.
Pritchard, Ed., M. Inst. C.E., F.G.S., 2 Storey's Gate, Westminster, and
37 Waterloo St., Birmingham. Civil and Sanitary Engineer.\*

Pritchard, Urban, M.D., Prof of Aural Surgery, King's College, 3 George St., Hanover Sq., London. Histol. of Internal Ear.

Provis, Richard, Camborne, Cornwall Co. Min.

Quaritch, Bernard, 15 Piccadilly, London. Bibliog., Ethnog.\* Radford, William, M.B., F.R.A.S., F.R. Meteo. S., Sidmouth. Mic. Raine, Thomas, Oologist. Leopold St., Leeds. British Collection.

Rambant, Arthur A., Dunsinsk, Ireland. Ast.
Ramsay, Alexander, Conductor Scientific Roll, 4 Cowper Road, Acton,
London, W. Chem., Min., Lithol., Palæo., Phys. Geog., Meteo.,
Zool. Will ex. Sci. Roll with Societies and Authors for their publications.\*

Ransom, Francis, Examiner to Pharmaceutical Society of Gt. Britain,

Hitchin. Bot. (Medicinal), Diatoms, Meteo. C. Ex. Ransom, Wm., F.L.S., F.S.A., F.R.H.S., etc., Fairfield, Hitchin, Herts. Bot: Crypt. Plants, Ferns, Geog. Dist., Arch. C. (Arch.)
Ransome, Arthur, M.D., M.A., F.R.S., 1 St. Peter's Sq., Manchester.
Physiol., Standard Medicine.
Ranyard, A. Cowper, Editor of "Knowledge," 11 Stone Bldg., Lincoln

Inn, W. C., London. Ast. Read, R. G. J., Cadbyrie House, Castlebar Road, Ealing, London, W

Orn., Ool.

Reader, Thos. Wm., F.G.S., M.C.S., 171 Hemingford Road, Islington, London, N. Palæo., Geol., Mic., Con., Moll. C. Ex.\*

Reed, F. R. Cowper, B.A., F.G.S., Asst. to the Woodwardian Prof. of Geol., Trinity Coll., Cambridge. Vert. and Invert. Palæo., Geol., Lithol. C.\*

Reed, I. W., 17 Colebrook Row, Islington, N. Bot.
Reed, I. W., 17 Colebrook Row, Islington, Ool., Con., Lepid. (Papilios

a specialty).

Reeves, Walter W., F.R.M.S., 32 Geneva Road, Brixton, S.W. Bot., Phæn. and Crypt. Plants, Ferns. C. Ex.

Reid, Walter F., C.E., F.I.C., F.C.S., Fieldside, Addlestone, Surrey. C. Minerals.

Reid, William, Naturalist, Nairn, Scotland.\*
Reinold, Prof. Arnold W., M.A., F.R.S., Royal Naval College, Green-

wich. Phys.

Richarde-Seaver, Major F. Ignacio, F.R.S.E., F.G.S., Assoc. Inst. C.E., M.R.I., Athenæum Club, Pall Mall, London, S.W., Editor-in-chief "Journal des Mines," and 26 rue Cambon, Paris. Min., Chem., Elect., Phys.

Richards, Rev. Walter John Bruce, D.D., St. Charles' College, Notting

Hill, London. Ast. and Phys.\*
Richardson, Benj. Ward, M.D., LL.D., F.R.S., F.S.A., 25 Manchester Sq., London, W. Physiol., Medicine, Org. Chem., Elect., Mic., Arch., Histol.\*

Arch., Histol.\*

Richardson, J., Curator of the Botanic Garden, Liverpool.

Richardson, Wm. H., F.C.S., 222 Market Place, Dudley. Bot., Org. and Inorg. Chem., Metall. Physics, Elect.

Rickards, Marcus, S.C., M.A. (Oxford), F.L.S., Twigworth Vicarage, Gloucester. Gen. Biol., Orn., Lepid.\*

Rippon, Robert H. F., 4 Sidney Terrace, Jasper Road, Upper Norwood, London. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Con., Shells. C. Ex.

Rivers, Lieut.-Gen. Fox Pitt, D.C.L., F.R.S., Rushmore, Salisbury, and 4 Grosvenor Gardens, London. Govt. Inspector of Ancient Monuments in Great Britain. Pres. Anth. Inst. of Great Britain. Anth., Arch. C. Ex. Arch. C. Ex.

Roberts, George, Lofthouse, near Wakefield, Yorkshire. Phan. Bot., Geog Dist., Migration of Animals, Orn., Con., Local Antiq.\* Roberts, Isaac, Starfield, Crowbury, Sussex. Ast.

Roberts, T., M.A., F.G.S., Woodwardian Museum, Cambridge.

Robertson, David, F L.S., F.G.S., Fern Bank, Millport, by Glasgow, Scotland. *Crustacea, Foraminifera*.

Robinson, Isaac, Beninghoe, Hertford. *Diatoms, Mic.* C. Ex.\*

Robinson-Douglas, W. D., F.L.S., F.R.G.S., F.E.S., Orchardton, Castle Douglas, Scotland. *Coleopt., British and European*.

Robson, John E., F.E.S., Editor "British Naturalist," 15 Northgate, Hartlepool. *Ent.*, Lepid. C. Ex.

Rodden, R. L. Kehle College, Oxford, Zool.

Rodden, R. L., Keble College, Oxford. Zool.
Rodger, Alex. M., Univ. Coll. Dundee, Scotland. Gen. Biol., Osteology.\*
Rogers, Thomas, 27 Oldham Road, Manchester. Ferns, Mosses, Moll.
C. Ex.

Rolfe, Robt. Allen, A.L.S., Asst. Royal Herbarium, Kew, Surrey. Bot. Orchids.

Rolleston, Geo., Oxford.
Romanes, Geo. J., M.A., LL.D., F.R.S., etc. Christ Church, Oxford.

Physiol., Psychol.\*
Rorie, James, M.D., Royal Lunatic Asylum, West Green, near Liff, Dun-

dee, Scotland. Con., Physiol., Psychol., Nat. Hist.\*

Ross, Justin C., care of H. S. King & Co., 65 Cornhill, London. Palæo., Geol., Arch.

Rosse, Earl of, Birr Castle, Parsontown, Ireland. Phys., Elect., Photog.,

Rousselet, Charles, 27 Gt. Castle St., Regent St., London, W. Mic., Zool., Rotifera, Protozoa, Infusoria.\*

Roy, J., LL.D., 33 Belvidere St., Aberdeen, N.B., Scotland. Desmids. Royal Microscopical Society, 20 Hanover Sq., London, W. Pres't A. D. Michael, Esq., F.L.S., Secretaries, Prof. F. Jeffrey Bell, M.A., Dr. W. H. Dallinger, F.R.S.; Treas., W. T. Suffolk, Esq.; Libr. Mr. W. H. Brown.\*

Rudler, Frederick William, Curator of the Museum of Practical Geology. and Hon. Dir. of the Anth. Inst. of Great Britain and Ireland, 28 Jermyn St., London, S.W. Geol., Min., Anth.

Ruffle, John, 21 Knoll Park Road, Neath, South Wales. Bot., Org. and

Inorg. Chem., Meteo., Elect., Photog. Russell, Wm. J., Ph.D., F.R.S., Past Pres. C. S., Lect. on Chem. Medical School of St Bartholomew's Hospital, 34 Upper Hamilton Terrace, London, N.W.

Russell, Thos. D., Dealer in Fossils, Minerals and Mic. objects, 78 Newgate St., London, E.C. Palæo., Geol., Min., Lithol., Mic. C. Ex.\*
Sadler. Herbert, 32 Manor St., Clapham, London, S.W. Ast.\*
Safford, Samuel Sutherland, Parkshot, Richmond, Surrey. Genealogy

and Heraldry.

Salton, J. B., 48 Queen Anne St., London, W. Comp. Biol.
Salton, John C., M.A. (Oxon.), F.L.S., New University Club, St. James Club, London, S.W. Comp. Anat., Zool.
Salvin, Osbert, M.A., 11 Chandos St., Cavendish Square, London, W.

Orn.

Sander, F., Horticultural Establishment, St. Albans, Hertfordshire. Orchidaceæ.

Sayce, Prof. A. H., Prof. of Assyriology, Queen's Coll., Oxford. Arch.

Saywell, Samuel, M.A., Frof. of Assyriology, Queen's Coll., Oxford. Arch.
Saywell, Samuel, M.A., F.L.S., F.R.A.S., The College, Broomsgrove,
Worcestershire. Bot., Ast., Zool., Arch.
Schäfer, Edward A., Prof. Physiol., University College, London. Ent.
Schaff, Robert F., Ph.D., B.Sc., M.R.I.A., Keeper Nat. Hist. Mus.,
Department of Science and Art, Dublin. Zool., Geog. Dist.\*

Schulze, Adolf P., F.R.S.E., F.R.M.S., 2 Doune Gardens, Kelvinside, Glasgow, Scotland. Microscopy.

Sclater, Philip L., Ph.D., etc., 3 Hanover Sq., W., and Odiham Priory, Winchfield.

Sclater, Wm. Lintley, Asst. Master (Science), Eton Coll., Windsor. Zool.\*

Scowcroft, Wm. R., Fern Lea, Prestwich, Manchester. Ent., Lepid. Scott, D. H., M.A., Ph.D., F.L.S., Hon. Keeper, Jodrell Lab., R. Gardens, Kent. Bot.\*

Scott, Robert Henry, M.A., F.R.S., F.G.S., Secretary to the Meteo. Council, Meteorological Office, 63 Victoria St., S.W., London.

Sclater, Wm. L., Asst. Master (Sci.), Eton Coll., Windsor. Zool. Scriven, J. B., Brigade Surgeon (retired), 95 Oxford Gardens, N. Ken-

sington, London, W. Mic., Histol., Invert. Anat., Ent. C.\*
Seabroke, G. M., F.R.A.S., Temple Observ., Rugby School. Ast.
Sedgwick, Adam, F.R.S., Trinity Coll., Cambridge. Zool.
Seebohm, Henry, F.Z.S., 22 Courtfield Gardens, So. Kensington, London. Orn.

Seeley, H. Govier, F.R.S., Prof. in Kings Coll., 25 Palace Gardens, Terrace, Kensington, London, W. Phys. and Strat. Geol., Vert.
Senicr, Alfred, M.D., Ph.D., F.I.C., F.C.S., Thornfield, Hiarold Road, Upper Norwood, London, S.E. Org. and Inorg. Chem.
Seward, Alb. C., St. John's College, Cambridge. Veg. Palaco., Recent Rose

Bot.\*

Shadbolt, George, F.R M.S., 11 Billiter Square, London, E.C. Alga,

Diatoms, Mcc., Photog.\*

Sharp, William, F.R.S., F.G.S., M.D., Rugby, Warwickshire. Medicine.\*
Sharp, Wm. E., Ledsham, N. Chester. Ent., Coleopt., Orn., Ool.\*
Sharpe, R. Bowdler, LL.D., Nat. Hist. Mus., S. Kensington, London.
Shaw, Wm. Forster, Mosshall-grove, North Finchley, London. Physical

and Strat. Geol., Min., Met., Phys., Mic., Bibliog., Arch., Philol. C. Ex.

Sheldon, Miss Lilian, The Field, Stroud Glos. Morph., Emb., Anat. Shelley, Capt. G. E., 10 Thurloe Sq., London, S.W. Orn., Lepid., Coleopt. (African only).

Shenstone, James C., 13 High St., Colchester. Bot., Chem., Photog., Arch.\*

Sherborn, Charles Davies, F.G.S., F.Z.S., 540 King's Road, Chelsea, London, S.W. Palæo., Protozoa, Index Gen. et Spec. Anim.\*
Sherring, R. Vowell, F.L.S., Hallatrow Court, near Bristol. British and West India Ferns, Botanical Hort. C. Ex.

Shipley, Arthur E., Christ's College, Cambridge. Comp. Anat., Injurious Insects.\*

Shore, T. Wm., F.G.S., F.C.S., Hartley Inst., Southampton. Strat. and Phys. Geol., Anth., Arch.

Sidgreaves, Walter, Stonyhurst College Observ., Whalley, W. Blackburn. Terrestrial Mag. Phys., Ast., Meteo.

Silver, S. Wm., F.L.S., F.R.G.S., F.H.S., F.R.B.S., F.R.M.S., F.S.S., etc., 3 York Gate, Regent's Park, London and Letcomb Manor,

Wantage, Berks. Sinclair, F. G., M.A., F. Cam. Phil. Soc., Barrogill Castle, Wick, Scotland and Newton Hall, Cambridge, England. Zool., Gen. Biol., Morph., Emb., Myriopoda.

Sinel, I., St. Heliero, Jersey. Marine Biol., Sponges, etc.
Skelton, T.A., Southampton. Ast.
Slade, Rev. H. P., F.R.A.S., 22 Wescott St., Holderness Road, Hull.
Bot., Geol., Mic., Photog., Meteo., Ast., Bibliog
Sladen, W. Percy, Orsett House, Ewell, Surrey. Echinoderms, Asteroidea.

Slater, J. W., Fellow Chem. Soc., Fellow Ent. Soc., Ed. "Journ of Sci," 36 Wray Crescent, Tollington Park, London, F. Biol., spe. Ent. C. Ex. Buprestide and Cetoniadæ for Cicindolidæ and Carabidæ.

Slater, Matthew, F.L.S., 1 West Grove Villas, Malton. Bot.
Smetham, Alfred, F.C.S., F.I.C., Analytical and Consulting Chemist to
the Royal Manchester, Liverpool, and No. Lancashire Agric. Soc.,

Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Scotland.

Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., South, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, William I., B.Sc., 4 Home Terrace, Dundee, Scotland. Bot., Smith, Worthington, G., E.L.S., M.A.L., Dungtable, Thereis, Anth.

Smith, Worthington G., F.L.S., M.A.I., Dunstable. Fungi, Anth., Arch., Eth. C. Ex.\*
Snape, H. Lloyd, D.Sc., Ph.D., Univ. Coll., Aberystwyth, Wales. Org. and Inorg. Chem.\*
Snelus, Geo. J., F.R.S., F.C.S., Vice-Pres. Iron and Steel Inst., Ennerdale Hall, via Camforth, Cumberland. Min., Crystall., Inorg. Chem. Matel. Chem., Metall.

Soames, Rev. H. Aldwin, M.A., F.L.S., Rose Cottage, Bromley, Kent.

Bot., Geol., Mic., Photog., British Mammals. C. Ex.\* Sollas, W. T., M.A., D.Sc., LL.D., F.R.S., Prof. Geol. and Min., Univ. Sollas, W. T., M.A., D.Sc., L.L.D., F.R.S., Prof. Geol. and Min., Univ. of Dublin, Talbot House, Beachrock, Co. Dublin, Ireland. Sponges. Somerville, Alexander, B.Sc., F.L.S., 4 Bute Mansions, Hillhead, Glasgow, Scotland. Bot., Moll.\*
Somerville, Rev. Jas. E., B.D., Crief, Scotland (in Summer); Mentone, France (in Winter). Bot., Ent., Moll.
Sorby, Henry Clifton, LL.D., F.R.S., F.S.A., Broomfield, Sheffield. Marine Invert., Geol., Lithol., Metall., Gen. Biol. C.\*
Southwell, Chas. Henry, Ph.D., F.R.M.S., Public Analyst, Boston. Bot., Chem., Physics, Elect., Mic., Photog.\*
Southwell, Thomas, F.Z.S., M.B.O.U., 10, The Crescent, Chapel Field, Norwich. Zool.\*

Norwich. Zool.\*

Sowerby, G. B., F.L.S., F.Z.S., Conchologist, 121 Fullham Road, London.

S. W., Dealer. Mollusks. Sale, purchase or ex. of shells.
Sowerby, Wm., See'y Royal Bot. Soc. of London, F.L.S., etc., Botanic (ardens, Regent's Park, London. Bot.
Spanton, Wm. Dunnett, F.R.C.S.E., Hanley, Staffordshire. Bot., Mic., Gen. Biol.\*

Spotswood, Green W., Inspector of Irish Fisheries, Dublin Castle, Dublin,

Ireland. Ichthyol.
Spruce, Dr. R., Acad. Imp. Germ., "Natura Curiosorums," F.R.G.S., etc., Coneysthorpe, Malton. Hepatica.

Stapf, Otto, Ph.D., Assist. for India, Royal Herbarium at Kew, 2, Clarence

Rd., Kew Gardens, Surrey.\*

St. Clair, George, Castle Road, Cardiff, Wales. Author of "Darwinism and Design," "Evil, Physical and Moral," "Buricd Cities and Bible Countries," etc. Geol., Anth., Biblical Arch.\*

Stebbing, Rev. Thos. R. R., M.A., Ephraim Lodge, The Common, Tun-

bridge Wells, Kent. Crustaceans. C. Ex.\* Stephens, Darell, F.L.S., F.G.S., Trewornan, Wadebridge, Cornwall. C. Cornish Birds.\*

Stevens, Samuel, Loanda, Beulah Hill, Upper Norwood, London, S.E. Ent: British Coleopt. and Lepid.

Stevens, Wm., Tettenhall near Wolverhampton. Bot., Mic., Bibliog., Ent., Lepid., Coleopt. Ex.

Stevenson, Rev. John, LL.D., F.R.S. Edin., Hon., Sec. Cryptogamic Soc., Scotland, Glamis, Forfarshire, N.B., Scotland. Bot., Phan. and Crypt. Plants.

Stewart, Capt. A., Salisbury Gardens, Ventnor, Isle of Wight. Bot. Stewart, S. A., Fellow Bot. Soc. Edinb., Museum, Belfast, Ireland. Bot., Mosses.\*

Stoate, William, Belmont, Burnham, Somerset, County of Somerset, Eng. Pamphlets, Maps and Engravings of the County of Somerset, Eng. Arch., Ool.

Stokes, Arthur H., A.M., F.G.S., H.M. Inspector of Mines, Green Hill, Derby. Geol., Mining.\*

Stokes, Sir G. G., Bart., Lensfield Cottage, Cambridge. Math., Physics, espec. Optics.\*

Stolterfoth, Henry, M.D., M.A., 1. Grey Friars, Chester. Diatomaceae both fossil and recent. C. Ex. microscopical slides or materials.\* Stone, Edward James, M.A., F.R.S., F.R.A.S., Dr. Phil. and Sci., Dir.

Radcliffe Observatory, Oxford.\*

Stone, Herbert, F.L.S., Grosvenor Road, Handsworth, Birmingham. Bot:

Phæn. and Crypt. Plants, Veg. Physiol., Veg. Histol.

Stone, Sir Benjamin, I.P., F.L.S., F.G.S., F.R.G.S., The Grange, Erdington, Birmingham. Bot: Mosses, Phys. Geol., Mic., Photog.,

Erdington, Birmingham. Bot: Mosses, Phys. Geol., Mic., Photog., Geog. Dist. C. Ex.\*

Stone, Wm., M.A. (Cambridge), Fellow Linnæan and Chem. Societies (London), "The Albany," Piccadilly, London, W. Bot: Phæn. and Crypt. Plants, Chem., Emb.\*

Stott, J. Herbert, 63 Manchester Road, Bolton, Lancashire. Orn., Ool. Stradling, W. Arthur, M.R.C.S.E., C.M.Z.S., F.Z.S., etc., Flores, Watford, Hertfordshire, Pres. Hertfordshire Nat. Hist. Soc. Ophiology. C. Ex.\*

Stratton, Frederic, Solicitor, F.L.S., Lond., The Chantry House, Newport, Isle of Wight. Bot: Phæn. Plants, Geol.

Strype, William George, C.E., M. Inst. C.E., M.I. Mech. Eng., 115 Grafton St., Dublin, Ireland. Agric., Geol., Elect.\*

Stnart, Chas. M., M.A., F.C.S., F.I.C., St. Dunstan's Coll., Catford, London, S.E. Chem. (Org., Inorg.), Physics.

don, S.E. Chem. (Org., Inorg.), Physics. Suffolk, William T., F.R.M.S., 143 Beulah Hill, Norwood, London, S.E. Mic.

Sutherland, James, Taxidermist, Sutherland Villa, West Bank, Wick, Scotland. Orn., Zool. Swan, Prof., Shandon Row. Nat. Philosophy.

Swanston, Wm., F.G.S., Queen St., Belfast, Ireland. Geol. C. Swinhoe, Ernest, F.E.S., Avenue House, Oxford. Ent., Lepid. A very large collection of Lepid. Lists on application. Agents and col-

lectors wanted. Correspondence desired.\*

Swinton, A. H., Ouselea, Bedford. Gen. Sci., Ent.\*

Symington, J., M.D., F.R.S.E., Lect. Anat., School of Medicine, Edinburgh, Scotland.\*

Symons, G. J., F.R.S., Sec. R. Meteo. Soc., 62 Camden Sq., London, N.W. Meteo. Ex. Meteo. publications.\*

Symons, Wm., F.C.S., Bilbrook, Taunton, Somerset. Chem., Elect. Symons, W. H., F.I.C., F.R.M.S., 130 Fellows Road, South Hampstead, London, N.W. Inorg. Chem., Mic., Histol. C. Ex. Tacey, Wm. G., L.R.C.P., L.F.P.S.G., L.S.A. (Lond.), F.R.M.S., 6 Manningham Lane, Bradford, Yorks. Mic.

Tait, P. G., F.R.S.E., Prof. Nat. Philosophy, Univ. of Edinburgh, Edinburgh. Scotland.

Taylor, Beatrice K., 34 Park Avc., Southport, Lancashire. Fungi, esp. Tremellina, Hymenomycetes and Gasteromycetes.\*

Taylor, Sir Charles Purcell, Baronct, D.Sc., 82 High St., Dundee, Scotland. Chem., Mic. C. Books, relating to patents and inventions.\*

Tegetmeier, Wm. B., North Finchley, London, W. Zool., Mam., Orn.

Tennant, James, Hon. Cur. of the Minerals in the Stoke Mus., West
Parade, Stoke-on-Trent. Min. C. Ex.\*

Terras, James Adam, B.Sc., Prof. of Bot., Royal (Dick) Vet. Coll., Asst. to Prof. of Bot., Edinburgh Univ., Royal Bot. Garden, Edinburgh, Societard, Ret., Physical Caratter Plants, Fungi Min. Photog.

Scotland. Bot: Phæn. and Crypt. Plants, Fungi, Mic., Photog. Terry, Edwin, F.R.M.S., 41 Nightingale Lane, Balham, S.W. Bot: Diatoms, Chem., Mic., Gen. Biol., Invert. Histol., Worms. C.

Theobald, F.V., B.A. (Cambridge), F.E.S. (London), etc. Cambridge Univ. Ext. Lett. on Injurious Insects, 12 Trumpington St., Cambridge. Author of "An Account of British Flies," and "Insect Life." Zool., Ent., esp. Diptera.\*

Thomas, T. H., 45, The Walk, Cardiff, Walcs. Palao., Anth., Arch.
Thompson, Claude M., M.A. (Cantab.), D.Sc. (Lond.), F.C.S., Prof. Chem. Univ. Callege. Cardiff Walcs. Chem.

Chem., Univ. College, Cardiff, Wales. Chem.

Thompson, Prof. D'Arcy W., Dundee, Scotland. Zool., Comp. Anat.
Desires Ex. for the Mus. of Univ. Coll., Dundee. American Marine Invert. particularly desired; British and Arctic forms offered

Thompson, Isaac C., F.L.S., F.R.M.S., Woodstock, Waverley Rd., Liver-

pool. Min. Thomson, G. Carruthers, F.C.S., Engineer, 23 Kersland Terrace, Hillhead, Glasgow, Scotland. Org. and Inorg. Chem., Metall.
Thomson, Geo. M., F.L.S., Science Teacher, High School, Dunedin.
Biol., N. Z. Crustacea, Bot. C.
Thomson, James, 26 Leven St., Pollokshields, Glasgow, Scot. Coleopt.,

Corals, Carbonif.
Thomson, J. Arthur, 30 Royal Circus, Edinburgh, Scotland.\*

Thomson, Sir Wm., F.R.S., P.R.S.E., LL.D., D.C.L., etc., Prof. Nat. Philos., The University, Glasgow, Scotland. Phys., Elect., Math.

Thorpe, T. E., Ph.D., F.R.S., Prof. Chem., Royal Coll, Sci. and Art, S. Kensington, London. Min., Crystall., Lithol., Org. and Inorg. Chem., Metall., Phys.

Tichborne, Chas. R. C., LL.D., F.I.C., 15 No. Great George St., Dublin, Ireland.\*

Tomes, Chas. Sissmore, 37 Cavendish Sq., London, W. Odontol.

Tomkins, Rev. Henry George, Park Lodge, Weston Super Marc. Arch., Ethnol.

Tomlin, Brockton, B.A. (Cambr.), 59 Liverpool Road, Chester. Coleopt., Moll. C. Ex.\*

Townsend, Frederick, M.A., M.P., F.L.S., Stonington Hall, Shipston-on -Stour. Bot. C.\*

Traill, Wm. A., Giant's Causeway, Co. Antrim, Ireland. Geol., Elect. Trechmann, Charles O., Ph.D., F.G.S., Hartlepool. Min., Crystall., Lithol.

Tripc, H. M., Maj. Gen., Indian Army, 3 Osborne Villas, Stoke, Davenport. Con.

Tripp, Wm. Blomefield, M. Inst. C.E., F. R. Metco. Soc. 7 Victoria St. Wcstminster, London, S.W. Geol., Meteo.

Tristram, H. B., D.D., F.R.S., The College, Durham. Orn., Con., Geol., Nat. Hist. of Palestine and Syria. C. Ex.

Trotter, Coutts, 10 Randolph Crescent, Edinburgh, Scotland. Comp. Geol.

Turner, H. H., M.A., B.Sc., F.R.A.S., Editor of "The Observatory, a Monthly Review of Astronomy," Chief Ass't, Royal Obs., Green-

Turner, Sir Wm., F.R.S., Prof. of Anat., Univ. of Edinburgh, Edinburgh, Scotland.

Tutt, J. W., F.E.S., Rayleigh Villa, Westcombe Hill, London, S.E., Lepid. C. Ex.
 Tutton, Alfred E., Demonstrator of Chem., Royal Coll. of Sci., S. Ken-

sington, Lendon, S.W. Tyas, W. H., F.R.M.S., Oak Bank, Blockley, Manchester. Phys., Mic.,

Gen. Biol. C. Ex.

Tye, G. Sherriff, 42 Caroline St., Birmingham. Con.

Tyler, Chas., F.L.S., F.G.S., F.Z.S., F.R.M.S., etc., etc., Elberton, New West End, Finchley Road, Hampstead, London, N. Palæo., Mic.,

Ussher, Richard J., Cappagh, Lismore, under Cahir, Ireland. Orn., Ool. C. Ex.

Van Capen, Samuel Richard, F.R.G.S., Corr. Member Dutch and American Geographical Societies (New York), New Athenæum Club, London, S.W.

Veitch, Harry J., F.L.S., Royal Exotic Nursery, King's Road, Chelsea, London, S.W.

Ventland-Smith, J., M.A., B.Sc., Horticultural Coll., Swanly, Kent. Bot.\*

Vereker, Hon. John G. P., Hamsterley Hall, Lintz Green, Newcastle-on-Tyne. Mic., Photog.\*

Verey, A. Sainsbury, Heronsgate, Riekmansworth, Hertfordshire. Zool., Orn., Ent.

Verner, Capt. Willoughby, Junior United Service Club, Charles St., London. Ool., Orn. C.

Vezey, John J., F.R.M.S., 55 Lewisham High Road, London, S.E. Mic.\* Vial, Henry, 9 St. Lawrence Green, Crediton, Devonshire. Mic., Photog.,

 Histol. C. Ex.\*
 Vice, W. A., M.B., Blaby, near Leicester. Dipt., Fungi.
 Victoria Inst. or Phil. Soc. of Gt. Britain, 8 Adelphi Terrace, Charing Cross, London, W. C. Pres., Sir George G. Stokes, Bart., Past Pres. of the Royal Soc.; Hon. Sec., Capt. Francis Petrie, F.G.S., etc. All depts. of Sci. and Phil.\*

Vines, Sidney H., M.A., F.R.S., Prof. Bot., Oxford Univ. Botanic Gardens, Oxford. Bot.

Vipan, I., A. M., Stibbington Hall, Wansford. Live Aquarium Fish. C.\* Vize, Rev. J. E., Forden Vicarage, Welshpool. Bot., Mic. C. Ex. Wager, Harold, The Yorkshire Coll., Leeds. Bot. Wally, Alfred, Narbiton, Surrey. Ent.

Waite, Percival C., Demonstrator of Veg. Histol., Univ. Coll., Dundee,

Scotland. Veg. Histol.

Walker, A. O., Nanty Glyn, Colwyn Bay, N. Wales. Crustacea.

Walker, J. F., 45 Bootham, York. Moll., Geol.

Walker, Frank, Chemist, 12 Beacon Lane, Everton, Liverpool. Bot.:

Algæ., Mic. C. Ex.\* Wallace, Alfred R., D.C.L. (Oxon.), LL.D. (Dublin), F.R.S., Parkstone, Dorsetshire. Hort., Gen. Biol., Geog. Dist.\*

Wallace, Alexander, M.D., M.R.C.P., 3 St. John's Terrace, Colchester.
Anthor of Notes on Lilies, 2nd Ed., Standard Work. Lilicea,
Phan. and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Desmids, Diatoms, Arch., Hymenopt. C. Lilies.\*

- Wallace, Robert, F.L.S., F.R.S.E., etc., Prof. Agric. and Rural Economy, The University, Edinburgh, Scotland.
- Waller, Gerald, Beach House, Southwald, Suffolk. Bot.. Zool., Ent. Waller, T. H., 71 Gough Road, Birmingham. Chem., Microscopic Igneous sections.
- Walsingham, Lord, M.A., F.R.S., LL.D., etc., Merton Hall, Thetford. Micro-Lepid.\*
- Walton, M.R.C.S., F.C.S., Lond., etc., 10 Charlotte St., Hull.

  Geol., Chem.

  Warburg, J. C., 8 Porchester Terrace, London, W. Lepid. C. Ex.\*

  Ward, Edw., 249 Oxford Road, Manchester. Mic. C.\*
- Ward, F. H., M.R.C.S., F.R.M.S., Springfield, near Tooting, S.W. Bot. C.
  Ward, Prof. H. Marshall, F.R. S., Cooper's Hill Coll., Staines. Bot.

- Ward, John, 23 Stafford St., Langton, Staffa. Geol. Ward, Col. Michael F., F.R.A.S., F.R. Meteo. Soc., Bannerdon House,

- Ward, Col. Michael F., F.R.A.S., F.R. Metco. Soc., Bannerdon House, Batheaston. Bot., Meteo., Ast., Orn., Ent.
  Ward & Co., Rowland (Limited), Naturalists, Taxidermists, Booksellers and Publishers, "The Jungle," 166 Piceadilly, London C. Wardle, Thomas, F.G.S., F.C.S., St. Edw., St. Leeks, Staffordshire. Warren, Robert, Moyview, Ballina, Co. Mayo, Ireland. Zool., Orn., Ool. C. Ex.
  Waterhouse, Charles Owen, F.E.S. (London), 22, Avenue Gardens, Acton, Middlesex or British Mus. (Nat. Hist.), London, S. W. Ent.,
- especially Coleopt.\*

  Waterhouse, F. H., 3 Hanover Sq., London. Lib. to Zool. Soc., London.

  Waters, Arthur W., Esq., Royal Mic. Soc., 20 Hanover Square, London, Bryozoa.\*
- Watkins, Rev. Ropert Boog, LL.D., B.A., F.R.S.E., F.L.S., F.G.S., Ehrenmitglied d. naturwiss. Ver. Lüncburg, Free Church Manse, Cardross, Dunbartonshire, Seotland. Vice-Pres. of the Conchological Soc. of G. Britain and Ireland. Geol., Moll.\*
- Watson, Wm., Asst. Cur. Royal Gardens, Kew, London. Bot., Hort.
  Watts, Rev. Arthur, F.G.S., etc., Rectory, Wilton Gilbert, Durham.
  Physiol., Geol., Veg. Palaco., Bot. C.
  Webb, E. A., F.L.S., Cookham Denc, Chiselhurst. Bot. C.
  Webster, Chas. S. Stanford, F.I.C., F.C.S., Lond., Malvern House,
  Redland, Bristol. Chem., Elect.
  Weir John J. E. Linnean, Zool and Ent. Societies of London. Chishum.

- Weir, John J., F. Linnæan, Zool. and Ent. Societies of London, Chirbury,
- Beckenham, Kent. Lepid. C. Ex. Weiss, F., B.Sc., F.L.S., Prof. Bot., Owens Coll., Manchester. Bot., Hort.\*
- Welch, R., 49 Lonsdale St., Belfast, Ireland. Strat. and Phys. Geol., Photog., Arch., Orn. C. Antiquaria. Irish Views. Ex.\*
  Weldon, Prof. W. F. R., F.R.S., University Coll., London, W.C. Zool.,
- Emb., Crustacea.
- Welleome, Henry S., Savage Club, London. Chem., Anth., Arch., Eth., Ethnog , Histol.\*
- Wesley, W. II., Ass't. Sec., Royal Astronomical Soc., Burlington House, Piccadilly, London.
- West, Rcv. George Herbert, D.D., Head Master Ascham School, Bourne-
- mouth. Palæo., Geol., Arch., Eng. C. Ex.\* West, Wm., F.L.S., 15 Horton Lane, Bradford, York. Phæn. and Crypt.
- Bot. C. Ex, esp. Desmids and other Algæ.\*
  Westlake, Ernest, F.G.S., Hon. Cur. Salisbury and S. Wilts Muscum, 2
  Ridgeway Road, Red Hill. Cretaceous Palaeo., Geol., Psychol.,
  Lithol., Photog., Ast., Prehist. Arch., Mollusks. C. Ex. Chalk
  fossils of Hampshire.\*

Wharton, Charles B., Hounsdown, Totton, Hants. Orn.\*

Wharton, Henry T., M.A., M.R.C.S., F.Z.S., 39 St. George's Road, Kilburn, London, N.W. Orn., Bot., Fungi, Nomenclature.
Wheldon, John, 58 Gt. Queen St., London, W.C.
Whitaker, J., Rainworth Park, Mansfield, Notts. Orn., Bot.
White, J. Martin, Dundee Naturalist's Society, Balruddery, near Dundee,

Scotland. Phys., Elect.
White, Jas. W., F.L.S., Warnham, Woodland Road, Clifton, Bristol.
Phæn. Bot.

Whitehead, Charles, F.S.A., F.L.S., F.G.S., F.R.G.S., Technical adviser to the Board of Agric.; Chair. of Committee on Diseases of Seeds and Plants, Vice-Pres. of the Royal Agric. Soc., Barming House, Maidstone.\*

Whitelock, Benj., M.A., Groombridge, Tunbridge Wells. Ferns, Mic. C. Whittingham, Rev. W. G., 18 Melbourne St., Leicester. Bot. Wieldt, Julius, New Walk, Loughborough, Ent.

Wilcock, Joseph, Wakefield, Yorkshire Co. Con.
Wilkinson, W.H., F.L.S., F.R.M.S., Pres. Birmingham Nat. Hist. and
Mic. Soc., etc., Pelican Works, Gt. Hampton St., Birmingham.
Bot., Lichens.\*

Willacy, Rev. T. R., B.A., F.G.S., The Vicarage, Thorganby, York. Palwo., Geol., Phys., Elect., Meteo., Gen. Biol., Philol. Ent.

Williams, Fred. N., F.L.S., Certifying Factory Surgeon for Brentford, 181 High St., Brentford, Middlesex. Caryophyllaceæ.\*
Williams, Griffith J., F.G.S., Blaenau, Ffestiniog, North Wales., Geol.,

Palæo., Bot.\*

Williams, Wm., F.R.C.V.S., F.R.S.E., Principal New Veterinary Coll., Edinburgh, Scotland.

Williams, W. M., F.R.A.S., F.C.S., The Grange, Neasden, London, N. W. Inorg. Chem., Metall., Phys., Anth.

Williams, W. Owen, F.R.C.Y.S., F.R.S.E, Prof. Cattle Pathol. Edinburgh, Scotland.

burgh, Scotland.

Williamson, Alexander William, Ph.D., LL.D., F.R.S., V.P.C.S., Prof. Emer. of Chem., High Pitfold, Haslemere.

Williamson, Dr., F.R.S., Prof. of Botany, Owens College, Manchester. Wills, A. W., Wylde Green, near Birmingham, Biol. Mic., Algæ, Desmids. C. Ex.

Wilson, Edward, F. G. S., Cur. The Museum, Queen's Road, Bristol.

Strat. Geol. Min. Zool. Invest. Palmo. Ex. Mellysle, Microsco.

Strat. Geol., Min., Zool., Invert. Palæo. Ex. Molluska, Microzoa Minerals and Fossils.\*

Wilson, George Fergusson, F.R.S., F.C.S., F.L.S., Heatherbank, Wey-

bridge Heath, Surrey.

Wilson, Gregg, M.A., B.Sc., Univ., Edinburgh, Scotland. Zool., Ichth.\*

Wilson, Gregg, M.A., B.Sc., Univ., Edinburgh, Scotland. Zool., Ichth.\* Wilson, John, D. Sc., etc., The Marine Lab. Univ. of St. Andrews, Scotland. Moll., Emb.
Wilson, Owen S., F.E.S., Cwmfrwd, Carmarthen, Wales. Lepid. C. Ex. Wilson, Scott B., F.Z.S., F.R.G.S., M.B.O.U., M. Tapen Soc., Heatherbank, Weybridge Heath, Surrey. Orn., Espec. Hawaiian Islands.\*

Wilson-Barker, David, Lieut. R.N.R., F.R.G.S., etc. Capt.-Supt. Thames Nautical Training Coll., H.M.S. "Worcester," Greenhithe. Phys. Geol., Mic., Photog., Meteo., Ast., Zool., Geog. Dist., Ichthy., Coleopt., Radeates.\*

Windle, Bertram C.A., M.A., M.D., D.Sc., Prof. Anat., Dean of Medical Faculty, Mason College, Birmingham. Human Anat., Vert.
Anat., Anth., Osteol., Myol., Teratot.\*
Wollasten, G. B., Bishop's Well, Chiselhurst, Kent. Ferns.

Wonnacott, John, F.G.S., F.R.G.S., F.R.H.S., East Cornwall College, Liskeard, Geol., Physiol., Animal and Veg. Physiol.

Wood, Joseph T., Hound Road, West Bridgeford, Nottingham. Chem., Mic., Ast.\*

Wood, Rev. Theodore, Baldock, Herts Co. Ent., Brit. Coleopt. C. Ex. Woodhouse, R.I., F.Z.S., St. Luke's Vicarage, Bickley, Kent. Orn., Ent.

Woodland, John, F.L.S.L., F.C.S.L., M.S.C.I.L., M.S.A., ect. (London), 93 Wood Vale, Forest Hill, London, S.E. Bot., Phæn. Plants, Org. and Inorg. Chem., Phys., Anat., Osteol.
Wood-Martin, Col. W. G., M. R.I.A., Cleveragh, Sligo, Ireland. Lake Dwellings of Ireland, History of Sligo. 3 vols., Rude Stone Monuments of Ireland, Sligo and the Enniskilleners (Co. Sligo), and the Island of Ashil W. of Achill.\*

Woods, H., B.A., F.G.S., St. John's Coll., Cambridge.

Woods, H., B.A., F.G.S., St. John's Coll.. Cambridge. Geol.\*
Woodward, A. S., Brit. Mus., South Kensington, S.W. Vert., Morph.
Woodward, Henry, LL.D., F.R.S., Keeper of Dep't Geology, British Museum (Nat. Hist.), Cromwell Rd., London, S.W. Fossil Crustaeea and Insecta.
Woodward, Horace B., F.G.S., Geological Survey of England, Museum, 28 Jermyn St., London, S.W. English Geol.
Woodward, Jas., B.Sc., F.C.S., F.I.C., Laboratory, Somerset House, London. Bot., Org. and Inorg. Chem., Phys., Mic., Gen. Biol.
Woodward, Martin Fountain, Biological Laboratory, Royal College of Science. South Kensington, S.W. Mammahan Teeth and their

Science, South Kensington, S.W. Mammalian Teeth and their Development.

Woollcombe, Walter G., M.A., B S.c., F.R.A.S., Exeter, Devonshire. Phys., Ast., Chem., Bot., Gen. Biol., Coleopt. C.

Workman, Thomas, Bedford St., Belfast, Ireland. Arach. C. Ex. Madagascar and S.A. Desires original papers and notes on Arachida. Wright, Bryce, M.M.S., F.R.G.S, F.Z.S., The Mus., 26 Savile Row, London, W. Min., Crystall., Met., Anth., Arch., Eth., Ethnog.,

Sponges. C. Wright, Chas. H., F.R.M.S., Assist. in Royal Herbarium, Kew. Bot.,

Crypt. Plants, Hort.

Wright, E. Perceval, M.D., Prof. of Botany, Univ. Dublin, Herbarium, Trinity College, Dublin, Ireland, Sec. Royal Irish Academy. Bot., Alga, Zool. (Akayonaria).
Young, Jas. B., Capt. R.N., Home address, Rodwell, Weymouth. Ool. C. Ex.\*

Young, John, F.L.S., F.Z.S., M.B.O. U., 64 Hereford Road, Bayswater London. Orn., Bot. C.
 Young, R. M., Museum, College Square, N., Belfast, Ireland. Arch., Eth.

# AUSTRO-HUNGARY.

Aberle, Prof. Dr., Privatbotaniker, I. Bäckerstrasse 8, Wien.

Akter, Lándor, Budapest, I. Con.

Apáthy, Stefan, Doctor der gesammten Medicin. O. ö. Prof. der Zool. und vergl. Anat. an. d. Univers. Kolozsvár, Custos des Siebenbürgischen Landesmuscums, Koloz-vár. Mic., Zool., Gen. Biol., Morphol., Emb., Invert. Anat., Histol., Worms. C. Mikroskopischer, bes. histologischer Praeparate. Ex.\*

Apfelbeck, Victor, Custos am Bosnisch-Herzegovin. Landes-Museum, Sarajevo, Bosnien. Gen. Ent., Hymenopt., Lepid., Dipt., Hemipt., Orthopt., Neuropt., Arach., Myriopoda. Coleopt. a specialty. C. Grande nombre de rares et nouveaux Coleopt. (du Balkan) for Ex.

Balint, Dr. Alexander, Vice-Custos der Siebenbürgischen Landes-mu-

scums, Kolozsvár. Ent.
Barvic, Heinrich, Ph.D., Choltic (Böhmen). Min., Lithol.\*
Basch, S. v., Prof., k. k. Univ., Wien. Exper. Pathol.
Bauer, C., botanischer Gärtner, Czernowitz.

Bauer, Dr. Ernst A., Smichow, 567, Bohemia. Coleopt. (Carabic., Ceramb.), Dipt., Musci (Hypnac, Sphagn.), Phan.\*

Bayer, Dr. Edwin, Nat. Mus., Prague. Lichens.
Bayer, Frantisek, Ph.D., Prof., Praha, 266, I., Bohemia. Zool., Anat. or Vert.\*

Beck, Dr. Günther, Ritter von Mannagetta, Dir. Botan. Section, k. k. Naturhistor. Hofmuseum, Wicn, I. Bot: Phæn. and Crypt. Plants, Fungi, Algæ, Hort. Europ. Herbarium. Ex. Beeke, Dr. Friedrich, Prof deutsche Univ., Prague. Min., Cryst., Petrog.\*

Benndorf, Dr. Otto, Prof. der Arch. a. d. Univ., Wien, IX. B. Pclikangasse 18. Arch.\*

Benz, Rob., Innsbruck. Bot.

Bertolini, Dr. Stefano, Madrano, Tretino. Coleopt. of Italy. C. Ex.\* Berwerth, Dr. Fritz, Custos am k. k. Naturhist. Hofmuseum, and Privat-Docent an der Univ., Wien. Min., Petrog.\*

Billroth, Dr. Th., Univ., Wien. Blaas, Dr. Josef, Prof. Geol. Univ., Innsbruck, Tirol. Geol., Lithol., Photog. C. Ex.\* Blau, F., Prof. k. k. Univ., Wien. Chem.

Blocki, Bron., Lemberg, Galicia. Bot. Blumentritt, Ferdinand, Prof. an d. Communal-Oberrealschule, Leitmeritz. Boliemia. Geol., Bibliog., Geog. Dist., Anth., Arch., Eth., Ethnog., Philol.

Bobek, Kasimir, Gymnasial Prof., Przemysl. Dipt.
Bohn, Julius, Maysedergasse 3, Wien, I. Minerals and Meteorites. Ex.
Wishes to buy American Minerals and Meteorites.

Böhmig, Ludwig, Dr. Phil., Univ. Zool. Inst., Graz. Anat., Histol., Worms.

Bolle, John, Dir. Imp. and Roy. Agric. and Chem. Exper. Station, Görz. Sericiculture, Cenology, Veg. Pathol., Chem.

Boller, Adolf, Carlstadt, Croatia. Bot.

Bonomi, Agostino, Prof. all' I. R. Ginnasio superiore, Rovereto, Tirolo.

Orn. C. Ex.\*

Borbás, Dr. V. von, Privatdoc. d. Bot. an d. Univ., Prof. and Realschule.

Dessewffygasse 3, Budapest. Florist.

Boresch, Louise von, Prague. Bot. Bormann, Prof., k. k. Univ., Wien. Arch.

Boroskay, Johann, Städt-Forstinspector, Zólyom. Orn., Coleopt. C. Ex.

Bossanyi, G., Pfarrer, Novák Neŭtrær Comitat bei Nagy-Tapolcsány. Coleopt., Lepid.\*

Bothar, Prof. Daniel, Pozsony. Bot. Brancsik, Karl, Med. Dr., Trencsin. Ent., Hymenopt., Coleopt., Hemipt.,

Orthopt., Mollusks. C. Ex.
Brauer, Prof. Dr. Friedrich Moritz, Custos am k. k. Naturhist. Hofmuseum, Prof. Zool. Univ.; wirkl. M. I. kais. Akad. d. Wissensch., Mayerhofg. 6, Wien, IV. Ent., Dipt., Neuropt., Biol., Crustacea, Phyllopoda. C.\*

Braun, H., Vienna, Simmering Haupstr. 9. Phan. Plants.

Breidler, J., Hubergasse 12, Ottakring bei Wien. Bot, Bryol.

Bresadola, Rev. Giacomo, Trento, Tirolo, Piazza dietro il Duomo 12. Bot., Fungi. C. Mycol. Ex.

Brezina, Dr. Aristides, Director k. k. Naturhist. Hofmus.; Wien. Min., Lithol., Crystal., Meteorites. Ex. and buys minerals and meteorites for the Museum.\*

Brücke, Prof. Dr. Ernst von, Vorstand. Physiol. Inst., Wien. Brusina, Spiridion, Prof. a. d. Univ., Dir. des Zool. Nat. Mus., Zagreb, Croatia. Mammals, Orn., Ool., Herpetol., Ichth., Moll. Bürgerstein, Alfred, Ph.D., Prof., Wien, II., Taborstr. 75. Anat. and

Physiol. of Plants.\*

Calderoni & Co., Budapest. Zool., Human Skeletons and Skulls.

Camerlander, Dr. C., Freiherr von, Adjunct k. k. geol. Reichsanstalt, Wien, Petrog.

Cathrein, Dr. A., Prof. Univ., Innsbruck. Min., Petrog.

Cermák, Kliment, Custos Mus., k. k. Conservator, Czaslau (Bohemia). Strat. Geol., Anth., Arch.\*

Chiari, Prof., Vorst. Pathol.-Anat. Inst., Deutsche Univ., Prague.\*
Chyzer, Dr. Cornelius, S. A. Ujhely. Arach., Coleopt. C.
Claus, Carl, Prof., k. k. Univ., Wien., I., Franzensring. Zool., Comp. Anat.\*

Cobelli, Prof. Giovanni de, Dir. Mus. Civ. di Roveredo, Phan. Plante, Strat. Geol., Arch.

Cobelli, Ruggero de, Medico Civico, Roveredo. Phæn. Plants, Fungi, Hymenopt., Orthopt. C.\*

Cori, Carl I., Dr. phil. et med., Docent u. Assist. d. Zool., Zool. Inst. d. deutschen Univ., Prag II., 1594. Zool., Gen. Biol., Morphol., Emb., Anat., Mollusks.\*

Csató, Johann von, Nagy-Enyed, Transylvania. Bot., Orn., Tax. C.\* Czakó, Coloman, Akad. Veterinar., Budapest. Florist.

Florist.

Czark, Coloman, Akad. Veterinar., Budapest. Flores. Czynk, Edward von, Fogaras (Transylvania). Orn., Zool., Tax. Ex.\*
Dadai, Eugen, Adj. am Nat. Mus., Budapest. Entomostraca. C.
Dahlström, Julius, Eperiss. Lepid. C. Ex.
Dalla Rosa, A., Prof. k. k. Univ., Wien. Anat.
Dalla, Torre, Karl W. von, Prof., Innsbruck, Tirol. Bot., Ent., Gen-Biol., Bibliog., Zool. C.\*
Damin, Prof. Narcis, Buccari, Croatia. Arack.

Degen, Dr. Arpad von, Budapest, Kerepeserhof. Bot., Flora of the Balkan. C. Ex.\*

Deininger, Prof. Emerich von, Dir, der Kön, landn, Lehranstalt, Re-

szthely. Cultivation of Plants.

Demeter, Dr., Maros-Vásárhely, Transylvania. Bot.

De Sardagna, Michele, Trento, Tirol. Phæn. and Crypt. Plants.

Dewoletzky, Dr. Rudolf, Gymnasialgasse 4, Czernowitz. Zool., Gen.

Biol., Morphol., Invert. Anat.\*

Diener, Dr. Carl, Univ., Vienna.
Dietz, Magacsy, Budapest. Bot.
Doelter, Cornelio, Dr. Prof. a. d. Univ. Graz. Phys., Geol., Min., Lithol. Doleshall, Heinrich, Brünn, Bürgergasse 23. Ent. Lepid., Coleopt. C.

Dölter-y-Cisterich, Dr. Cornelio, Prof. Univ., Graz. Min., Petrog. Donath, Dr. Julius, Gössergasse 3, Budapest. Chem., Physiol.

Dörfler, Ignatz, Wien, Burgring 7. Bot.

Doubrawa, Wilh. Johan, Entomolog. u. Musik direktor, Zizkov pr. Prag, Bohemia. Bot.: Phæn. and Crypt. Plants, Ferns, Algæ, Min., Crystall., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.

Drasch, Dr. Otto, Glacistrasse 57, Stiria. Vert., Histol. Drasch, Prof., Vorst. Inst. für Histol. u. Emb., Univ., Graz.

Dumbrava, Uazul, Prof. Belényes. Bot.
Dunikowski, Dr. Emil, Prof. Univ., Lemberg, Galicia. Geol.\*
Dybowski, Dr. Ben., Prof. Univ., Lemberg, Galicia. Zool.
Dzieduszycki, Count Wladim, Mus. Dzieduszycki, Lemberg, Galicia.

Orn.

Ebner v. Rofenstein, Prof., Vorst. Histol. Inst. Wien.
Edenberg, Prof. Dr. Carl Langer von, Vorstand Anat. Inst., Wien.
Eger, Dr. L., I. Maximilianstr. 11, Wien. Palæo., Geol., Min., Meteo.,
Zool., Emb., Anat., Anth., Vert., Mam., Orn., Osteol., Ent. C.

Einsle, Anton, Riemerstr., Wien. Bibliog., Ent., Micro-Photog. Emich, Gustav v., IV. Sebastian Place, 8, Budapest. Bibliog., Applied. and Agric. Ent.

Entz, Dr. Geza, Prof. der Zool. am Polytechnicum, Budapest. Protozoa, C.

Eppinger, Prof., Vorst. Pathol., Anat. Inst., Graz.
Ettingshausen, Prof. A. v., Dr., Techn. Hochschule, Graz. Phys.\*
Ettingshausen, Baron Constantin von, Prof. der Bot., Univ., Laimburggasse 8, Graz. Fossil Flants, Tertiary Flora. C.
Exner, Dr. Franz, Prof. Univ., Wien, IX., Währingerstr. 29. Phys.
Exner, Dr. Ka l. Prof. Gymn., Wien, Wasagasse, 10. Math., Phys.\*
Exner, Sigmund, Prof. der Physiol. a. d. Univ., Wien, IX., Servitergasse
19. Physiol.\*

Eysn, Marie, Salzburg. Phan. Bot.\*

Fåbry, János, Prof., Remaszombat. Bot. Fehlner, C., III. Schützengasse 2, Wien. Bryology. Felder, Dr. C., lid. der Kais, L. C. Acad. der Naturwissenschaften en Bur-

gemeister von Weenen, Operngassc 8, Wien.

Feldkirchen, Prof., Kärnthen. C. Coleopt. Fekete, Jos., Inspektor d. Bot. Gartens, Budapest.

Fényi, Rev. Julius, S. J., Obscrvatorium, Kalocsa. Ast.\*

Filarszky, Ferdinand, Assist. am bot. Inst. d. kgl. ung. Univ., Budapest. Bot., Alga.\*

Flatt, Carl von, Elesd, Comitat Bihar. Bot., Gramin., Bibliog. and Hist. of Bot.\*

Fleischl v. Marxow, E., Prof., k. k. Univ., Wien. Physiol.

Formánek, Dr. Edw., k. k. Brünn, Anastasius-Srüngasse 4. Phan. Bot.

Forstinger, Rud., Vedrod. Bot.

Foullon, Baron Heinrich v., Wien. Chem., Lithol. C. Ex.\* Fournes, Herm., Kaufmann, Klagbaung. 3, Wien, IV. Ool. Ex.

Freh, Prof. Alfons, Güns. Bot. Freyn, J., Beh. aut. Civil-Ingenieur, fürstl. Baurath, Pragne, Smichov, Bohemia. Bot.: Phanerogams. C. Ex. Ranunculus not European for European specimens.\*

Fric, V., Wladislawsgasse 21a, Prague, Bohemia. Min., Geol., Palao.,

Zool. C. Ex. Fritsch, Prof. A., Univ., Prague, Bohemia. Zool., Palæo.

Fritsch, Dr. Carl, Privat docent der Bot. an der k. k. Univ., Lederergasse 23, Wien, VIII. Bot.: Phæn. Plants. C. Ex.\*
Fruwirth, Carl, diplom. Landwirth, Protessor an der landwirthschafte-

Lehranstalt in Mödling bei Wien. Docent au der k. k. Hochschule für Bodenkultur in Wien. Spezieller Pflanzenbau (Hopfen).\* Fuchs, Dr. H., Privatdocent für Paläo., Wien. Fuchs, Dr. Sigm., Assist. am Physiol. Inst., Wien, IX., Schwarzspanienstr. 17. Physiol.

Fuchs, Theodor, Dir. du geol. Abtheilung am k. k. Naturhistor. Hofmseum, Wien. Palæo., Geol. (Tertiary).
 Fugger, Eberhard, k. k. Prof., Custos des k. k. Botan. Gartens in Salz-

burg. Bot., Geol., Min., Chem.
Fukal, Hugo, Wien, VIII., Lerchengasse, 34. Bot.: Crypt. Plants,
Fungi, Lichens, Algæ. Mycol.\* Gaertner, Dr. Gustav, k. k. Univ. Prof., Wien, I., Schulerstr. I. Elect.,

Mic., Physiol., Histol.

Gammel, Alois, Budapest IX., Lonyaigasse 18. Orn., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex. Gander, Hieronymus, Pfarrer zu Innervillgraten, Post Lillian, Tirol.

Bryol.

Ganglbauer, Ludwig, Custos am k. k. Naturhistorischen Hofmuseum, Wien. Coleopt., Orthopt. K. K. Gartenbau-Gesellschaft in Steiermark (Mitteilungen). Mitteilungen aus dem Botan. Institut, Gratz.

Gelmi, Enrico, Trento, Tirolo. Phan. Plants, Ferns. C.

Genersich, Prof. A., Univ., Klausenburg. Vert. Emb. and Anat., Osteol., Myol., Histol. of Vert. C. Georgescu, Ilie, Hülfsarbeiter am botan. Institut, Bukarest. Gerstendörfer, Dr., Krumau, Bohemia. *Min.* Gileemot, V., Budapest.

Glaab, Ludwig, Bot. Gärtner am k. k. Bot. Garten, Salzburg.\*
Glowacki, Julius, Prof. de Gymnase. Lcoben, Styrić. Bot: Ferns,
Mosses, Fungi, Lichens, Algæ., Veg. Palæo. C.
Godlewski, Emil, Prof. de l'Univ.. Cracovie, Rue de Straszewski.\*
Goldschmidt, Frid. Wilh., Wicn, III. 3, Metternichgasse 2. Ast., Photog.,

Mic., Dipt. C. Ex. Goldschmiedt, G., Prof. k. k. Univ., Wien. Chem.

Gothard, Alex. von, F.R.A.S., Hereny, bci Steinamanger. Phys., Meteo., Ast.\*

Gothard, Eugen von, F.R.A.S., Astrophys. Observatorium, Herény, bei

Steinamanger. Phys., Ast., Astrophotog. C.\*
Graber-Vitus, Prof., Czernowitz. Physiol., Insects.
Graeffe, Edward, Inspector, Triest, S. Andrea 2, k. k. Zool. Station.
Hymenopt., Mollusks, Crustacea, Worms, Radiates, Sponges, Protozoa. C. Apidæ, Formicidæ, Cynipoda.

Graff, Ludwig von Prof. Zool. Univ. Hainvichstr. 48, Graz. Bibliog.

Graff, Ludwig von, Prof. Zool. Univ., Heinrichstr. 48, Graz. Bibliog., Worms. C. Library. Ex.\*

Grebe, Heinrich, Landesgeologe, Trier.

Gredler, P. Vincenz, Botzen, Tirol. Moll.

Gressel, Dr. Agostino, Trento, Via Larga 4. Coleopt. C. Ex. Grobben, Carl, Prof. der Zool. a. d. Univ., Wien, I., Franzensring. Zool.\*

Gurlitt, W., Prof. Univ., Graz. Arch.
Gurlitt, W., Prof. Univ., Graz. Arch.
Gutwinski, Rom., Prof. Gymnasium, Tarnopol, Galicia. Bot.
Gwolff, Dr. Gyula, Torda. Bot.
Haas, B., Dr. Phil., Adjunkt der k. k. Versuchs Station, Klosterneuburg bei Wien. Chem., Bacteriol.

Habelendt Dr. G. Chem., Bacteriol.

Haberlandt, Dr. G., o. Prof. d. Bot. an d. Univ., Vorstand d. bot. Instituts, Dir. d. bot. Gartens, Graz, Klosterwiesgasse 41.

Haberlandt, Dr. Michael, Adjunct, k. k. naturhist. Hofmuseum, Wien. Eth., Anth.

Habich, Otto, Wien, XVII., Stiftgasse 64. Lepid. C. Ex. Hackel, Prof. E., St. Polten. Gramineæ.

Halácsy, Dr. E. de, Wien, VII., Schraukgassestr. 1. Bot. Halasz, Prof. Arpád, Mako. Bot.

Halbherr, Bernardino, Rovereto (Trentino). Coleopt. C. Ex.

Haller-Graf-Bela, V., Retesdorf, Siebenburcng bei Schässburg. Moll., Histol.

Hanausek, Thomas, Franz, Dr. Phil., k. k. Prof. der Naturgeschichte, Mitglied der k. k. Prüfungscommission für Handelsschulen, Wien, Mitglied der K. K. Prüfungscommission für Handelsschulen, Wien, VII., Bezirk Breitegasse 5. Pflanzen-Anat., Nahrungs und Genussmittelkunde. Tech. Mic., Warenkunde.\*

Handl, Dr. Alois, Prof. Univ., Czernowitz. Physics.\*

Handlirsch, Anton, Asst. am naturhistor. Hofmuseum, Rubengasse, 5, Wien, IV. Hymenopt., Hemipt. C.\*

Hann, Julius, Prof. an der Univ., Wien, XIX., Hohe Warte, 38. Meteo.\*

Hantken, Prof. Max von, Univ., Budapest.

Hatschek, Beithold, Dr. Phil., Prof. Univ., Prague. Zool., Gen. Biol.,

Morphol., Emb., Anat. Hauer, Dr. Franz Ritter v., k. k. Hofrath und Intendant des k. k. naturh.

Hofmus., Wien, I., Burgring 7. Palao., Geol.\*

Haury, C., Smichow 418, near Prague (Bohemia). Coleopt.: Procerus, Procrustes, Carabus, Calosoma, Cychrus.

Hazslinszky, Prof. Frigyes, Heperjes. Bot. Hebra, Dr. Hans Ritter von, Docent an d. Univ., Vorstand der Abtheilung für Hautkrankheiten a. d. allgem. Poliklinik, I. Kärnthner-

strasse, 14, Wien.\*

Heger, Franz, Custos und Leiter der Anthr.-Eth. Abtheilung am k. k.
Naturhistorischen Hofmu-enm u. Sekretär der Anthropologischen

Gesellschaft, Wien. Eth., Arch., Anth.\*

Heider, Dr. A. R. v., Docent für Zool., Graz, Maiffredygasse, 4. Zool., Radiates.\*

Heimerl, Anton, Dr. Phil., Penzing, Wicn, Parkgasse, 30 A. Phan. Bot.,

Desmids.

Heinricher, E., Prof., Univ., Dir. des bot. Gartens, Innsbruck. Bot.\*

Heinricher, E., Prof., Univ., Dir. des bot. Gartens, Agrain.

Heinz, Dr. A., Prof. d. Bot. a. d. Univ., Dir. d. bot. Gartens, Agram. Heller, C., Prof., Univ., Innsbruck. Vergl. Anat., Zool., Morphol., Echinoderms.

Hellich, Johann, Podebrad, Bohemia. Phan. Bot., Palao., Geol., Ent., Dipt., Coleopt. C. Ex.

Helmhacker, Rudolf, Nusle 187, Prague. Min., Geol.

Hempel, E. G., ord. Prof. an d. Hochschule für Bodencultur, Chef redac-

teur der Oesterr. Forstzeitung, Wien. Forestry.

Hensch, Dr. Andreas, Essez, Slavonia. Hemipt. C.\*
 Henschel, Prof. Gustav A. O., Wien, VIII., Florianigasse 16-18. Ichthyol., Ent., Phytoapthol.\*

Hering, Ewald, Prof. der Physiol. Dentsches Physiol. Inst., Prague. Phys., Mic., Gen. Biol., Histol.\*

Herlinger, Franz, Oberplan (Boliemia). Coleopt., Lepid. Hilber, Vincenz. Prof. a. d. Univ., Graz. Geol. Hochstetter, Ferdinand, M.D., a. o. Univ. Prof., Wien, IX., Währingerstr.

13. Emb., Anat.\*

Hoefer, Hans, Prof. an der k. k. Bergakademie, Leoben. Geol., Min., Crystall., Lithol. C. Ex.\*

Hoernes, Dr. Moriz, Assis't naturhist. Hofmuseum, Wien. Anth.

Hoernes, Rudolf, Dr. Phil., Prof. a. d. Univ., Graz, Sparbersbachgasse 29. Vert. and Invert. Palæo., Geol., Anth. C. Ex.

Hofmeister, Emil, Smichov 293, Prague. Lepid. Hofmokl, Dr. Johann, k. k., a. ö. Univ., Prof. und Primararzt, Wien, I. Zyottenring. 4. Chirurgy.\*

Höfner, Gabriel, Wolfsberg, Kärnten. *Phæn. Plants, Lepid.* G. Ex.\* Höhnel, Dr. Franz Ritter von, a. o. Prof. d. Bot. u. d. indust. Mikroskopie, IV. Teehnikstrasse 13, Wien.

Holetschek, Dr. Johann, Adjunct der k. k. Sternwarte, Wien, Währing.

Ast. \* Holl, Moriz, Med. Univ. Dr., k. k. Universitäts-professor, Graz, Harrachgasse 21. Anat. C.\*

Holzinger, Dr. J. B., Hof- und Gerichts- Advocate, Graz. Bot., Lichens,

Bibliog.: Literature of the Middle Ages.

Horvath, Dr. Géza, Budapest, Dir. Ent. Station of State. Hemipt. C. Hübl, Arthur v., Militair geographisches Institut, Wien, VIII. Chem.,

Hueppe, Ferdinand, Prof. der Hygiene, Prague. Fungi., Mic., Gen. Biol.

Huss, Johann, Felka. Coleopt.

Huter, Rev. Rupert, Sterzing, Tirol. Phæn. and Crypt. Plants.

Ilosvay de Nagy-Iloseva, Lajos, Prof., Dr. Polytechnicum, Budapest.

Chem.

Istvanffy, Dr., Custos National-Museum, Budapest.

Jablonowski, Joseph, Asst. Ent. Station, Budapest. Ent., Dipt., Thysanopt. C. Thysanopt. Ex.\*

Jaderny, Franz, Entomologe, Langenzersdorf bei Wien.\*

Janosik, Dr. Johann, Prof., Univ., Prague. Morphol., Emb., Anat., Histol.\*

Jarostaw, Tomniki, Krakau. Zool., Coleopt. C. Ex.\*

Jentys, Stefan, Dr. phil., Prof. der höheren landwirth. Lehranstalt, Dublany bei Lemberg (Galizien). Physicl., Bot., Agric. Chem.\*

Jiekeli, Carl. F., Dr., Hermannstadt. Hydroid., Echinod., Protoz. Jordan, Paul, Dr. Phil., Birkigt bei Tetsehen. Zool.
Kabát, Josef Emanuel, Welwarn, Bohemia. Bot: European and Oriental Phænerogams, Cryptogams.\*
Kalehberg, Adolf, Baron von, Wien, XIII., Penzing, Parkgasse 62.
Lepid. C. Ex.

Kanszt, J., Losoncz. Bot.

Karajan, V., Prof., Arch. Mus., Univ., Graz. Karlinger, Leopold, Wien, II.-V., Dammstr. 33. Lepid. Karrer, Felix, Geolog. Volontair am k. k. Naturhist. Hofmus., Wien, Karrer, Feirx, Geolog. Volontair am K. K. Maurinist. Hollius., wren, XIX. Ober Döbling 80. Rhizopodist und Petrog. du Bausteine.\*

Kastner, J. V., Wien, XV., Márzstr. 9. Colcopt. C. Ex.

Kastner, Karl, k. k. Prof., Salzburg. Bot., Geol., Min., Zool.

Kaufmann, Josef, Rubensgasse 5, Wien, IV. Colcopt. C.

Keek, Dr. Chas., Aistersheim. Bot: Phæn. Plants. C. Ex.\*

Keleesényi, Carl von, Tavarnok, Hungaria via N. Tapolesany. Colcopt.,

Lenid. (Euran et Evol.).\*

Lepid. (Europ. et Exot.).\*

Keller, Josef von, Wien. Bot.
Kerner, v. Marilaun, Prof., Dir. Bot. Mus., k. k. Univ., Wien.\*
Kheil, Napoleon M., Ferdinandstr. 38, Prague. Lepid. (Europ. and exotic), Orthopt., Hemipt., Dipt., Neuropt. C. Ex.\*
Kinzel, Stefan, Petersdorf b. Trautenau. Min., Geol.\*
Kittl, Ernst, k. k. Naturhist. Hofmus., Wien. Geol., Palzo. Ex. for

Museum.\*

Klapálek, Frantisek, Prof. F.E.S., Museum, Prague. Geog. Dist., C. Neuropt. Ex.\*

Klein, Jul., Prof. d. Bot. am Kgl. ungar. Josephs-Polytechnikum, Buda-

Klein, W., Prof., Vorst. k. k. Arch. Inst., Univ., Prague.

Klemencie, Ignaz, Ph.D., Prof. Phys. and . Univ., Graz. Klement, Robert, Siebenbürgen. Photog., Lepid., Coleopt., Con., Moll.,

Orn., Zool., Ool. C. Ex. Klos, Rudolf, Sangerberg. Lepid.

Klutschak, Prof., Gymnasium, Leitmeritz, Bohemia. Bot.

Kmet, Andreas, rom. Kath. Pfarrer, Prencov (bei Schemnitz). Large and fine collection of Roses and Fungi, Phæn. and Crypt. Bot. Ex. for

fine collection of Roses and Fungi, Phæn. and Crypt. Bot. Ex. for Am. spec. esp. of tropical climates.

Knoll, Prof., Vorst. Inst. f. Exper. Pathol., Univ., Prague.

Koch, Prof. k. k. Hochschule für Bodencultur. Wien. Min., Geol.

Koechlin, Dr. Rudolf; Beamter am Naturhist. Hofmuseum, Wien, VII., Siebensterngasse 28. Crystall., Min.\*

Koelbel, Karl, Custos am k. k. naturhist. Hofmuseum, Wasagasse 28, Wien, Zool. Ex. Crustacea.\*

Kögler, Carl, Schönbüchel b. Schönlinde, Nordböhmen. Min. C. Ex. Kohl, Franz F., Custos adjunct am k. k. naturhist. Hofmus., Wien, XVIII. Hymenopt.\*

Kolazy, Josef, Kais, Rath u. Hilfsämter-Dir., Wien, XIV, Gürtelstr. 9. Hymenoplera.\*

Hymenoptera.\*

Kolombatovic, Prof. G., Spalato. Vert., Cephalopoda, Dibranchiata. Korensky, Josef, Smichov, Bohemia. Palæo., Coleopt. C. Ex.\*

Korlevic, Prof. Anton, Zagrab. Ent.

Kornhuber, Andreas, Med. and Phil. Dr., Prof. Inst. Polytech., Wien, V.-I. Bot: Phæn. and Crypt. Plants, Vert., Palæo. Č. (Bot.) Ex.\* Körösi, Josef, Dir. des Communalstatistichen Bureaus, Budapest.

Kotula, Boleslaus, Gymnasial Prof. Przemijsl. Lamellibranchiata, Insects.

Kowalewsky, Dr., Mieczyslaw, Dublany, Galicia. Infusoria, Emb. Tel eosts.

Kowarz, Fred., k. k. Postverwalter, Franzenbad, Bohemia. Dipt. Krasan, Franz, Prof., Lichtenfelsgasse 21, Graz. Bot., Physiol.

Krasser, Dr. Fridolin, Wien, I., Univ., Pflanzenphysiol. Inst. Bot., Veg. Palæo., Mic.

Kravogl, Hermann, k. k. Prof., Egna, Tyrol. Bot., Min. Ex. Kreidl, Alois, Prague, Manufactory for Phys., Chem., and similar appar-

atus, for use of instructors. Phys. Geol., Min., Crystall., Chem., Metall., Physics, Elect., Zool., Anat., Anth. C.

Krenner, Dr. Jos., Prof. Polytechn. u. Nationalmus., Budapest. Min. Krivány, Johánn von, Comitats Cassier, Arad. Geol., Geog. C.\* Krone, Wilhelm, Prof., k. k. Staats-Oberrealschule, Wien. Lepid. C.

Krsepinsky, Carl, Böhmish Brod. Hort., Zool., Lepid., Coleopt. Kulczynski, Wladislaw, Prof. am St. Hyacinth-Gymnasium, Krakau.

Arach. Ex.\* Kundrab, Prof., Vorst. Pathol.-Anat. Mus., k. k. Univ., Wien.

Kunszt, Janos, Losoncz. Bot.

Kunszt, Karl, Schütt-Somercin. Orn., Ool. Ex.

Kunszt, Karl, Schütt-Somercin. Orn., Ool. Ex.
Ladislav, Prof. Duda, Real. Gymnasium, Prague.
Langhoffer, Aug., Dr. Prof., Zengg. Ent., Dipt.
Lanz, Dr. Victor von, Prof. Univ., Wien. Phys.
Laretzky, P. Lavadka, Gömör. not.
Lanbe, G. C., Prof., Vorst. k. k. Geol. Inst., Univ., Prague.
Lecher, Bruno, Dr. Phil., Prof. Phys. an der Univ., Innsbruck.
Lecher, E., Prof., k. k. Univ., Wien. Exper. Physics.
Lehoczky, Theodor, Munkacs. Arch. C.\*
Lendenfeld, Robert von, Ph.D., Prof. Univ., Czernowitz. Morphol., Invert.

Anat. Spages. C. Ex.\* Anat., Sponges. C. Ex.\*
Lendl, Adolf, Docent am Polytechnicum, vice-custos am Nat. Mus.,

Budapest. Arach., Biol.\*

Leonhardi, Adolf, Baron, Platz, Bohemia. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.\*

Lewandowski, Dr. Rudolph, Prof. Nat. Hist. etc., Wien, I., Hauptstr. 109.

Gen. Bot., Elect., Lepid., Coleopt. C. Ex. Lieben, Dr. Adolf, Prof. Chem., Univ., Wien, IX., Wasagasse 9. Liebermann, Prof. Dr. Leo, Dir. der Kön. Chem. Reichsanstalt, Palais des Ministeriums f. Ackerbau, Budapest. Chem., Meteo., Gen. Biol.\* Lieblein, Robert, Asst. der k. k. Sternwarte, Prague. Phys. Geol., Phys.,

Elect., Photog., Meteo., Ast.

Linhart, Dr. Georg, Prof. d. Bot. an d. Kgl. ungar. landwirthsch. Akademie, Altenburg. Lippich, Ferdinand, Dr., Prof. Math. and Phys., Univ., Prague, II., 1594.

Phys., Optics.\* Lóczy, Lewis, Prof. Geog., Univ., Budapest, VII., Felső erdősor, 1.

Strat. and Physical Geol., Photog. C. Ex.\*

Lode, Alois, Dr. Med., Wien, IX., Schwarzspamerstr. 17. Physiol.,

Histol.

Lomnicki, Mar., Prof., Lemberg, Galicia. Geol., Coleopt.
Lorenz, Dr. Ludwig, Ritter von, Custos adjunct am k. k. naturhistor.
Hofmus., Burggasse 9, Wien. Orn., Mammals.\*
Lugert, Josef, Prof. of the Music-Conservatory, Smichow, 567 (Bohemia). Phanerog.\*

Lütkemüller, Johannes, Dr. Med., Wien, IV., Favoritenstr. 4. Desmids.\* Maggi, Capt. August, Fünfkirchen. Coleopt. C. Ex.\*

Marenzeller, Dr. Emil Edler von, Custos am k. k. naturhist. Hofmuseum, Tulpengasse 5, Wien. Zool. Ex. Echinoderms, Worms.\*

Marktanner-Turneretscher ,Gottlieb, F.R.M.S., Em. Beamter am k. k. naturh. Hofmus., Graz, Hauptplatz 11. Chem., Mic., Photo-Micro-

graphy, Hydroids, Invert. Anat.\*

Maska, K., Prof., Neutitschein, Moravia. Palæo., Anth.

Mayer, Sigmund, M.D., o. ö. Prof. d. Histol. a. d. dentschen Univ., Prague,

Stefansgasse 28. Mic., Histol.\*

Mayr, Dr. Gustav, Wien, III., Hauptstr. 75. Hymenopt., Galls. C. Medreczky, Stefan, Gymnasial Prof., Ungvar. Orn.

Méhelij, Louis de, Prof., Brassó. Amphibia, Reptilia. C.\*
Merk, Dr. Ludwig, Anat. Inst., Wien.
Merkl, Eduard, D. Bogsán, South Hungary. Coleopt. C. Ex.

Michaelovics, Prof., Lengg. Bot. . Micklitz, Franz, k. k. Forstmeister, Radmansdorf, Oberkraim. Coleopt. C. Ex.\*

Miczynski, K., Gcol. Inst. der Universität, Krakau. Veg. Palæo.

Middendorff, E. v., Hellenorm (Livland). Orn., Ool. Ex. Mik, Josef, Prof. am k. k. Akad. Gymnasium, Wien, III., Marokkaner-gasse 3. Dipt. C. Ex.

Mikálkovics, Prof. Dr. Geza Victor, Anat. u. Emb. Inst., Uellöerstr. 25, Budapest. Urogenital Vert. development. Mikosch, Dr. K., Prof. an d. Staats-Oberrealschule, II., Praterstr. 30,

Wien.

Moeller, Prof. Dr. J., k. k. Pharmakologisches Inst. der Univ., Graz. Bot., Mic.\*

Mojsisovics, Dr. Edm. von, Vice-Dir. der k. k. Geol. Reichsanstalt, Wien, III., Strohgasse 26. Invert. Palæo., Strat. Geol.\*
Mojsisovics von Mojsvár, Aug., M.D., k. k. a. ö. Prof. der Zool. an der

technischen Hochschule, Docent für Zool. und vergleichende Anat. an der Universität, Custos der Zool. Abtheilung des steiermärkischen Landcsmuseums "Joanneum," Graz, Maiffredygasse 2 Anat., Biol., Birds, Reptiles.\*

Molisch, Dr. Hans, a. o. Prof. d. Bot. and. technischen Hochschule, Graz.

Bot.

Molnár, Lajos, Molna Szccsöd., bei Körmend. Collector and Dealer.

Nat. Hist., Zool., Orn., Ool. Large collection of mammals, bird
skins and eggs from Europe. Ex. first class mammal and bird
skins of all parts of the world. Cor. desired. Foreign Ex. desired.\*

Moser, Dr. James, Privat-Docent der Physik a. d. Univ. Wien, VIII., Laudongasse 25. Phys., Elect., Photog.\*

Moser, Dr. L. Carl, Gymnasial-Prof., Tricst. Min., Ath., Arch. C.\*

Mrázek, Alois, Ph.D., Pribram, Bohemia. Cestodes, Crustacea.

Mühel, Lul., Bodenback a. e. Bohemia. Orn. Ex. Mühlbach, Josef, M.D., Chotebor, Bohemia. Bot. Mulser, Anton, Bozen (Tyrol). Reptiles.

Murr. Josef, Dr. Phil., Fallmerayerstrasse 2, Innsbruck. Phæn. Bot. C.\*
Nandor, Dr. Uhrik, Prof. d. Hyg., Kerepesi-út 61, Budapest. Ent.,
Lepid. C. Ex.\*

Nestler, Dr., Univ., Prague, Bohcmia. Veg. Anat.

Nickerl, Dr. Ottokar, Wenzelsplatz 16, Prague. Lepid., Coleopt.

Nickerl, Ottokar, Jr., Student, Wenzelsplatz 16, Prague. Hemipt.

Nicdzwiecki, Jul., Prof. Polytechnic Sch., Lemberg, Galicia. Geol. Nonfried, A. F., Entomologe, Rakonitz, Bohemia. Coleopt. C. Buys and Ex. Lamellicornia, Lucanida, Buprestida, Cerambycida.

Novák, Ottomar, Ph.D., Karlsplatz, 21, Prague. Invert. Palæo., Geol. Obermayer, Prof. A. v., k. u. k., Oberst., Wien, VI., Gumpendorferstrasse 43, Laborat., Technische Militair Acad., VII., Stiftgasse 2. Phys.\*

Obersteiner, Dr. Heinrich, Prof. Univ., Docbling, Wien. Anat. of Vert., Neurolog., Histol of Vert.\*

Ormándy, Nicolans, Dir. d. Gym., S. a. Ujhely. Bot.
Ott, Josef, Mies, Böhmen. Ent., Coleopt., Chrysomelidæ. C. Ex.\*
Otto, Anton, Mineralien-Comptoir, Wien, VIII., Schlösselgasse 2. Min.,

Lepid, Coleopt., C. Ex.\*
Paar, Ludwig August. Rentte, Tirol. Lepid., Mollusks, Ent., Coleopt. C. Ex. L. and F. W. Con. and Lepid., with collectors of N. and S. America, Australia, Asia, etc.

Pachinger, Alajos, Prot., Klausenberg. Trematodes, Sporazoa. Paderwieth, M. Ent. Bureau, Gospic, Croatia. Orn., Ool., Europ. and exot. Coleopt. C. Ex.\*

Palla, Dr. Eduard, Privat Docent der. Bot. a. d. Univ., Graz., Leechgassc 22. Bot.

Pantocsek, Josephus, M.D., Tavarnok, via N. Tapolesány. Diatoms der Globus.\*

Panzer, Hubert, k. u. k. Oberlieutenant, Riva, Sud Tirol. Orn., Ool.,

Min. C. Ex. Pataky, Gábor, Uj-Pest Rivály. Bot.

Paulin, Alphons, k. k. Prof., Dir. des k. k. botan. Gartens, Laibach. Gen. Bot. Herbarium. Ex.

Paszlavszky, Josef, Prof., Förcáliskola, Budapest, II. Zool., Cynipida, Hymenopt. C. Ex.
Pater, Béla, Prof. dans l'Ecole d'Agric., Cassovie Hongrie, Kassa, Inst.,

d'Agric. Bot: Herbarium. Ex.\*

Penck, Dr. Albrecht, Prof., Universität, Wien, I. Phys. and Glacial Geol., Geog., Geomorphol.\*

Penecke, Karl A., Dr. Phil., Privat-Docent a. d. Univ., Graz, I., Tummelplatz 5. Geol., Palæo.

Pcrenyi, Dr. Jo-ef., Kecskemét. Vert. Emb.
Peruter, Dr. T. M., + rof. Univ., Innsbruck, Meteo.

Petr, Franz, Prof. am. k. k., pedagogium, Ticin (Bohcmia). Fresh Water Sponges; Rotifera, Worms. C. Ex.

Petri, Carl, Dr. Phil., Schaessburg (Segesvár). Coleopt. C. Ex.

Peyl, Theodor, Naturhistoriker, Thomasgassc 4, Prague, 4II. Zool., Gen.

Biol. Est. Calcopt. Marrion.\*

Biol., Ent., Coleopt., Myriop.\*

Biol., Ent., Coleopt., Myriop.\*

Pfaundler, Leopold, Dr. Phil., Prof. de Physique à l'Univ., Graz, Physik. Inst., Halbärthstr. 1. Phys., Elect.\*

Pichler, Prof., Vorst. Arch. Mus., Univ., Graz.

Piers, Major, Güns.

Pietro, Rev. D. Porta, Cologna di Creto, Tirolo. Bot. C. Ex.

Pintner, Theodor, Dr. Phil, Asst. Zoolog. Inst., Wicn, I. Zool., Worms.\*

Plasen, Dr. V., Wien, I., Fütterergasse. Coleopt.

Polák, Karl, Wladislawgasse 21, Prague. Flora of Europe.\*

Polansky, Anton, Palais d'Este, Brünn. Lepid., Coleopt. C. Ex.

Porcius, Florian, Naszod-Rodna (Transylvania). Bot. C. Ex. Phanerogams of Transylvania for others.\*

Porta. Pietro, Curato, Creto. (Tirolo). Phan. Plants.\*

Porta, Pictro, Curato, Creto, (Tirolo). Phon. Plants.\* Posepny, Bergrath, Wien, XIX., Carl Ludwigstr. 62. Mining Geol.\* Prazmowski, Dr. Adam, Prof. d. Bot. u. Landwirtsch. an d. landw. Akad., Czernichow b. Krakau, Galizien.

Pribram, R., Prof. Univ., Dir. Chem. Lab., Czcrnowitz. Chem.\*

Purjesz, Dr. Sigmund, Docent, Univ., Budapest, Geschichte der Medicin.

Interne Medicin, Bibliog., Anth., Arch., Ethnog.\*

Rabl, Carl, Prof. Dr., Vorstand Anat. Inst., Krankenhausgasse, Prague.

Emb., Moll.

Raciborski, M., Bot. Gardens, Cracovia. Veg. Palæo.

Raffesberg, Hugo, Podhragy, via Nagy Tapolcsan. Coleopt. C. Ex.

Ráthgch, A., Schemnitz. Min., Geol., Minerals, Rocks. Ex.

Rátz Stefanus de, Dr., Prof. du Pathol. Anat., a. d. kön. ung. Veterinär-

akademie zu Budapest. Pathol., Anat.
Rebel, Hans, Dr., Magdalenenstr., 14, Wien, VI. Micro-Lepid. C. Ex. Rechinger, Dr. Karl, Wien, I., Friedrichstr. 6. Syst. Bot.\*
Redtenbacher, Josef, Prof. a. d. k. k. Realschule, Budweis, Radetzky

Str. 5, Bohemia. Hemipt., Orthopt. C.\*
Rehman, Anton, k. k. Universitäts Prof., Lemberg (Galizien). Syst. Bot.\*

Reinitzer, Prof. Friedrich, Prof. Zool., deutsche techn. Hochschule, Prag, I. Applied Bot., Zool., Agric. and Org. Chem., Mic. C. Ex. Reisch, E., Prof., Univ., Innsbruck. Arch.
Reitter, Edmund, Paskan (Moravia). Coleopt.\*

Remisch, Franz, Saaz, Bohémia. Ent., Lepid., Coleopt. C. Ex.

Rever, Edw., Wien, IX., Liechtensteinstr. 47. Ex. Geol. photographs.\*

Richter, A., Bot. Garten, Budapest. Bot.

Richter, Lajos, Kaufmann, Budapest, Andrássy Ut 3. Bot: Phan. and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Desmids, Diatoms, Lepid., Dipt., Hymenopt., Neuropt., Orthopt., Conch., Hemipt. C. Ex. Wishes pressed plants, insects, land mollusks,

nempt. C. Ex. Wishes pressed plants, insects, land mollusks, pipes, gravours and postage stamps from all parts of the world.\*
Rinnböck, J. C., Simmering 14, Wien. Mic. (Diatoms). C. Ex.
Roesler, Prof. Dr. Leonhard, Dir der chem.-physiol. Versuchsstation,
Klosternenburg b. Wien. Chem., Bot., Fungi, Hort., Ent. C.
Rofenstein, Victor Ebner, Ritter von, Dr. der medecin, a. ö. Prof. der Histol, Wien; Wipplingerstr. No. 38. Mic., Emb., Vert. Anat.,
Histol.

Rogenhofer, Alois Friedrich, Custos am k. k. Naturhist. Hofmuseum, Josefstadterstr. 29, Wien. Lepid., Hymenopt.\* Rosa, Dr. Alois Dalla, a. ö. Prof. Anat., Wien.

Rosa, Dr. Luigi Dalla, Prosector Anat. Inst., Wien. Rosonowsky, F., Hunfalvijgasse. 4, Budapest. Zoolog. Praeparator. Mam., Orn., Herpetol , Ent.\*

Rossi, Ludvig, Agram, Croatia. Bot.

Roth, Martinus, Prof., Iglo. Min., Geol. Roux, Dr. Wilhelm, Prof. Univ., Innsbruck. Menschliche Anat. u. Entwickelungsmechanik.

Entwickelungsmechank.
Rozsay, Rudolf, Ungvár. Coleopt. C. Ex.
Rulitz, Johann, k. k. botan. Gärtner, Laibach. Phæn. Bot., Ferns.
Rupertsberger, Mathias, Mühldorf. Europ. Coleopt. C. Ex.\*
Russ, Carl, Officer, Wildstein, Bohemia. Coleopt.
Sabransky, Henry, Dr. Med., Univ., Tramin, Süd. Tirol. Phæn. Plants,
Ferns, Mosses, Coleopt., Hemipt. C. Ex.\*
Sajo, Karl, Prof., Ackerbau-Ministerium, kön. ung. entomolog. Station.

Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.

Sasclehner, Kalman, Andrassy St. 3, Budapest. Palæo., Geol. of Rocks, Min., Crystall., Lithol., Mic., Meteo., Philat. C. Ex.\* Satke, Ladislaus, k. k. Bezirksschulinspector in Tarnopol, Galizien. Met., Phys. Geol.

Schaffer, Josef, Dr. Med., Wien, IX, 2, Schlagergasse 3. Mic., Emb., Osteol., Histol. C. Ex.

Scharizer, Dr. Rud., Prof. Univ., Czernowitz. Min.\*

Schaschl, Johann, Buchscheiden, Karnthen. Coleopt. C. Ex.\* Schenk, S. L., Emb. Inst., Wien. Emb., Vert. and Invert.

Scherffel, Aladár, Igló. Bot : Algæ.\*
Scherfle, Aladár, Igló. Bot : Algæ.\*
Scherl, Edmund, Wolfsberg, (Kärnten). Bot : Phæn. Plants.\*
Schernhammer, Josef, Marzstr. 32, Wien, XV. Lepid. C. Ex.
Schiffner, Dr. Victor, Privat-doccut der Syst. Bot. an. d. k. k. deutsch
Univ., Prague. Flora of Bohemia, Bryol.
Schilbergham Keil Assist on den Univ. Budganget. Bot. (Bryol., Tera-

Schilberszky, Karl, Assist. an der Univ., Budapest. Bot. (Bryol., Teratal., Morphol).

Schlangenhausen, Dr. Fridolin, Feldhof, bei Graz. Zool., Gen. Biol., Anth., Herpetol., Tax.\*

Schmidt, Anton, Bürgerschuldirector, Haida, Bohemia. Mosses, Moll., Coleopt. Ex.

Schneider, Dr. Karl Camillo, Asst. Zool. Inst. Univ., Wein. Schrauf, Dr. Albrecht, Prof. Univ., Wien, Grillparzerstr. 2. Min., Cryst.,

Inorg. Chem., Met., Phys.
Schwackhöfer, F., Prof. an der k. k. Hochschule für Bodencultur, Wien, IX., Währingerstr. 59. Agric., Chem.\*

Schwalb, Karl, Schulleiter, Hühnerwasser, Bohemia. Fungi. C.

Seifert, W., Klosternenburg bei Wien. Chem., Mic.\*
Sekera, Emil, Ph.D., Gymnas.-Prof., Czaslau, Bohemia. Mic., Meteo.,
Zool., Gen. Biol., Geog. Dist., Morphol., Emb., Anat., Anth., Eth.,
Ent., Worms, Protozoa. C. Ent.\*

Senoner, Ad., früher Bibliothekar an d. k. k. geol. Reichanstalt, III., Marxergasse 14, Wien.

Settmacher, Gustav, Oberlehrer, Petersdorf b. Trautenau (Bohemia.)

Min., Geol.. Crystall. C. Ex.\*
Siebenrock, Fried., Assist. am k. k. naturhist. Hofmus., Burgring 7,

Wien. Herpetol. Ichth., Osteol.\* Siemiradzki, Joseph, Prof., Univ., Lemberg. Strat. Geol., Photog., Anth.,

Eth. C. Ex.\* Sigmund, Alois, Gymnasium, Smichow (Bohemia). Petrog.

Sikora, Karl, Wien, IV., Haupstr. 7. Palao.\*

Simeek, Adolf, Bezirksceretär, Weisswasser (Bohemia). Coleopt., Lepid., Orn.

Simonkai, Dr. Ludw., Prof. d. Naturgeschichte an d. Realschule, Arad. Skalskij, Karl, k. k. Post Controler, Smichow bei Prague. Macro- and Mi-

cro-Lepid. C. Ex.\*
Skorpion, W., Wien, XIII.-2. Lepid. C. Ex.\*
Sommaruga, E. Frhr. v., Prof. k. k., Univ., Wien. Chem., Bacteriol.\* Spaeth, Dr. Franz, Kohlmessergasse 3, Wien. Coleopt. C. Ex. Desires Coleopt., esp. Longicornes and Chrysomelites.

Spee, Dr. Ferd. Graf von, Prof. Anat. Inst., Kiel.

Speiser, Franz, S. J., Prof., Kaloesa, Kollegium. Coleopt. C. Ex.\* Spitaler, Rudolf, Phil. Dr., Adjunct der k. k. Sternwarte, Prague. Min. Photog., Meteo., Ast. C. Ex.\*
Splichal, Cl., Lehrer, Hetzendorf b. Wien. Coleopt.

Srdinko, Josef, Prague. Europ. Lepid.

Srnka, Anton, Kön. Landescassier, Kleinseite 259, Prague. Coleopt., Cicindelidae of the world.

Staub, Moriz, Prof., Dr., Sec. Soc. Geol. Hungarian, Budapest, VII., Kerepesi út 8. Bot., Veg. Palæo.\*
 Stefan, Dr., Freiherr von Washington, Schloss Pöls, Post Wildon, Steier-

mark. Orn., Geog. Dist. and Acchimatiz. of Birds. Ex.
Steigerwald, Karl V., Chotebor, Bohemia. Orn., Ent., Lepid.
Steindachner, Dr. Franz, k. u. k. Hofrath, Dir. der Zool. abtheilung der
k.k. Naturhist. Hofmuseum, Burgring 7, Wien. Herpetol., Ichth.\*
Stockmayer, Dr. Siegfried, Wien, Dobling Hauptstr. 12. Algæ. Diatoms, Hist. C. Ex.\* Stoffella. d'alta Rupe, Emil, Prof. der Internen Medezin an der Univ.,

Wien, VIII., Alserstrasse 25. Herz-Lungen. u. Unterleibskrankheiten, Sprechstunde 4 Uhr.\*

Stole, Antonin, Ph.D., Prague, Bohemia. Oligochata, Myxasporidia,

Protozoa.

Stolz, O., Prof. Univ., Innsbruck. Math.\* Stossich, Michele, Prof., Trieste. Worms, Moll. C.

Stur, Dionys, Oberbergrat. mitglied d. Akadem., Dir. d. k. k. geol. Reichsanstalt, III. Rasumoff-kygasse 3, Wien. Phyto-palæo. Sturany, Rudolf, Dr. Phil., Wissenschaftlicher Hilfsarbeiter am k. k.

Naturhist. Hofmus., Kasernengasse 7, Wien VI. Moll.\*
Stussiner, J. A., Wienerstrasse 15, Laibach (Krain). Coleopt. (esp. Pselaphidæ and Scydamanidæ), Orthopt., Con. C. Ex. Suess, F. E., Ph.D., Wien, k. k. Geologische Reichsanstalt. Palæo., Geol.\*

Sullivan, Rev. Maurice, Univ. of Innsbruck. Con. C. Swess, Eduard, Prof. Univ., Wien. Geol. Szajnocha, Dr. L., Prof. Geol. and Palæo., Universität, Cracovia. Geol., Veg. Palæo.

Szepligeti, Prof. Gyöző, Budapest.

Szepigett, Frot. Gyozo, Budapest.
Szinnyei, Olmár, Budapest.
Szokol, Dr. Paul, Prof., Felső-Bánya. Min. C. Sell and ex.\*
Szombathy, Josef, Custos am k. k. Naturhistorisehen Hofmuseum, Sigmundsgasse 8, Wien, VII. Anth., Arch., Osteol.
Sztehlo, Dr. Aurel, Spinegerszeg. Bot.

Szyszylowicz, Dr. Ign., Prof. Bot., and Dir. Bot. Lab., Agric. Coll., Dublany near Lemberg. Bot.: Phan. Plants, Mosses, Fungi. C. Fungi. Ex.\*

Tabornegg, Markus von, Klagenfurth, Carinthia. Bot.

Talowitz, E., Adjunct Brauerei-Versuch Station, Wien, IX. Chem.\*

Talsky, Jos., Prof., Neutitschein, Moravia. Orn.
Tangl, E., Prof., Univ., Czernowitz. Bot.
Tanta, Dr. Adolf, Székesfehervár. Bot.
Tcisseyre, Dr. Lor., Docent Univ., Lemberg, Galicia. Geol.
Teller, Dr. Friedr., Adjunct. Geolog. Reichsanstalt, Wien. Geol.

Teller, Dr. Friedr., Adjinet. Geolog. Reichsanstalt, Wien. Geol. Termy, Gustav, Iglo, Zips. Bot.
Teschler, Georg, Prof. Staats-Oberrealschule, Körmöezbánya. Nat. Hist., Chem., Lithol., Anat., Herpetol., Histol. of Vert., Odontol., Diatoms. C. Ex. Trachyto, Opal.
Thalhammer, Prof. Johann, Kaloesa bei Budapest. Ent., Dipt. C. Ex.\* Tieserhausen, Alexander, Baron von, Gummerhof Dorf Bozen, Tyrol. Moll. C. Ex.
Toldtt, Prof. Dr. Carl, Vorstand II., Anat. Inst., Wien. Hum. Anat.,

Histol. Tominz, Raimondo, Inspecteur général du plantations publiques, dir. du jardin bot., Trieste. Bot., Hort.

Tondera, Fr., Prof. à l'Ecole Polytechnique, Krakau. Veg., Palao.

Török, Prof. Dr. Aurel, Vorstand Inst. of Anthropologie, Rosenplatz 7, Budapest. Man and Apes.

Toth, Dr. M., Kaloesa bei Budapest. Min.

Toula, Dr. K., Kalocsa del Buldapest. Min.
Toula, Dr. Franz, Prof. der Mineralogie u. Geologie an der k. k. technischen Hochschule, IV., Wien Geol.\*
Trabert, Dr. Wilhelm, Doe. Univ., Wien, XIX., Hohe Warte 38. Meteo.
Traxler, Ladislaus, Dr., Munkács. Con., Spongillidæ.\* C. Ex.\*
Trusz, Simeon, Prof. am k. k. Ober-Gymnasium, Zloczów (Galizien.)

Syst. Bot. C.\*

Tsehermak, Prof., Dir. Min., Petrogr. Inst., k. k. Univ., Wien.

Tschnsi zu Sehmihdoffen, Victor Ritter von, Villa Tännenhof bei Hallein,
Salzburg, Chairman of Comm. for Ornithol. Obs. in Austro-Hungary. Orn., esp. Orn. of Austria and Hungary C. Ex. Birds of Austro-Hungary, esp. of the Alps.

Uhlig, Victor, Prof., Techn. Hochschule, Prague. Invert. Palaco., Strat. and Phys. Geol., Moll., Protozoa.\*

Ulirik, V., Dr., Budapest, Herepeserstr 61. Lepid. Ullepitsch, Jos., Gnezda (Zips). General Bot. Will ex. plants of Carpathian Alps for Enropean plants.

Umlauft, Anton, Schönbrunn k. u. k. Hofgärten Inspector, Wien, XIII., Hort. C. Ex.\*

Vadászfy, Eugen, Inspector of Woods and Forests, Budapest, V., Bez.

Karpatuteza 19 r. Zool., Orn., Coleopt. Vandas, Dr. K., Prague, Academ. Gymnasium. Flora of the Balkan-Peninisula.

Vávra, Váelav, Ph.D., Assist. Bohem. Univ., Prague. Zool., Crustacea. C. Ostracoda in ex.\*

Vejdovskij, Franz, Ph.D., Prof. of Biol., Comp. Anat. and Emb., University, Prague, Bohemia. Zool., Gen. Biol., Emb. of Invert., Comp. Anat., Worms, Protozoa, Fresh-Water Sponges, Coccidæ Psyllidæ, Hymenopt., Fresh-Water Amphipoda. C.\*

Velenovskij, Prof., Dr., Univ., Prague. Oriental Plants (esp. Bulgarian). Morphol., Bohemian Flora.\*

Venczel, Wrany, Sub-Lechnitz via Szepes Ofala, Szepes. Plants, Mosses, Lichens. C. Ex.\*

Vetter, Karl, Assecuranz dir., Prague. Coleopt, (Cicindela, Carabus). Vierhapper, Friedrich, Ried. Phæn. Bot., Plants Ferns. Vintschgau, Prof. v. vorst. Physiol. Inst., Innsbruck.\*

Vleck, William, Vinohrady 1, Prague, Bohemia. Europ. Lepid. Voss, Wilhelm, k. k. Prof., Laibach. Fungi. C. Waagen, Dr. W., o. Prof. d. Paläontologie, Wien. Wagner, Adolf, Dr. Phil., Asst. Bot., Inst. der Univ., Mariatheresieustr.

25, Innsbruck. Bot.\*
Wähner, Franz, k. k. Naturhistor. Hofmuseum, Privat-Docent an der Univ., Wien. Geol., Palæo. Waltenhofen, Prof. Dr. A. von, Wien. Elect., Magnetism.\*

Weichselbaum, Prof., k. k. Univ., Wien. Pathol., Anat., Histol., Bacteriol.

Weidel, Prof., Vorst. Chem. Lab., k. k. Univ., Wien.

Weinek, Dr. Ladislaus, Prof. Univ. Prague, Bohemia, Dir. der k. k. Sternwarte. Mcteo., Ast.

Weinzierl, Robt. von, Prague, 174—I. Arch., Coleopt. C. Ex. Weinzierl, Dr. Th. Ritter von, Docent, Vorstand der Samen-Control Stat. wirkl. Mitglied der Kaiserl. Leopold-Karol. deutschen Akademie der Naturforscher, etc., Herreng. 13, Wien. Samenkunde, Untersuchung der Kraftfuttermittel, Futterbauversuche.

Weiss, Dr. A., Prof. Univ., Prague, Bohemia. Crypt. Bot., Desmids,

Diatoms.\*

Wender, Dr. Neumann, Czernowitz. Chem., Mic.

Wendlandt, Paul, Königl. Aberförster, Tapiau. Ool., Orn., Mosses. C. Wettstein, R. von Westersheim, Dr. Phil., Prof., Dir. d. botan. Gartens der deutsch. Univ., Praguc. Bot., Palæo.\*
Wichmann, Dr K, Wien, IX. Bot., Bacteriol.\*

Wielowicyski, Heinrich v., Docent Univ., Lemberg, Horodenka. Zool., Gen. Biol., Morphol., Emb., Invert. Anat., Histol. Wierzejski, Anton, Dr. Phil., Prof. Zool. Univ., Krakau. Hymenopt.,

Crustacea, Sponges.

Wiesbaur, Prof. J., Mariaschein, Bohemia. Bot: Phæn. Plants; Min., Lithol.\*

Wilckens, Martin, Dr., Prof., k. k. Hochschule für Bodencultur, Wien, Vorst. Zool. Physiol. Lab.\*

Wilhelm, Carl, Ph.D., Wien, Cottagegase 24. Universal and Forest-Bot. C. Ex.\*
Willkomm, Moritz, Dr. Phil., Prof. de la bot. syst.; Ancien Dir. du Jardin bot. de l'Univ., Prague. Phæn., and Crypt. Plants.\*

Withacil, Dr. Emanuel, Wien, 3-2 Hörnegasse, 18. Zool., Anat., Emb. Woldrich, J. N., Ph.Dr., k. k. Prof., Wien, 11I. Neülinggasse 6. Palæo., Geol., Anth., Arch. C. Ex.\*

Wolfinau, Wolf v., Prof. Realschule, Leitmevitz, Bohemia. Min., Geol. Wolfszezak, Dr. Eustache, Prof. Zool. and Bot., Polytechnic School, Lemberg. Bot., Salicology. C. Plants and Woods. Ex. Zahlbruckner, Dr. Alex., Assist. k. k. Naturhist. Hofmuseum, Wien. Bot: Phæn. and Crypt. Plants; Lichens, Photog. C. Ex. Zahlbruckner, Dr. Carley Verwick Wienwich Michael Man.

Zechenter, Dr. Gustav, Kremnitz (Körmöczbánya). Min., Bot. C. Many spec. to ex.\*

Zelinka, Dr. Karl, Prof., Graz. Zool., Gen. Biol., Emb., Histol., Worms.\* Zenger, Chas. V., F.R.A.S., F.B.A.A., F.A.S.P., Memb. Acad. of Sciences of Prague, Prof. of Phys. and Astrophysics, Dir. Astrophysical Observatory, Karlsplatz, Polytechnic School, Prague.

Astronomical Photog., Phosphorog. Ex. for objects in the same

Zoufal, Prof. Vladimir, Ostrawa, Moravia. Lepid., Coleopt. C. Ex. Zuckerkandi, Prof., k. k. Univ., Wien. Anat. Zukal Hugo, Wien, VIII., Lerchengasse 34. Crypt. Plants.\*

#### BELGIUM.

Ballion, Jean, Gand. Invert. Palao., Zool., Anth., Orn., Ent., Moll. C. Ex.

Bambeke, Ch van, 5 rue Haute, Gand. Emb., Vert.

Bayet, Baron de, membre des societés royale malacologique, archéologique et scientifique, 58 rue Joseph II., Brussels. Geol., Min., Palæo. C. Ex. Desires espec. to receive fish, reptiles, shells, crustacea, polypus, crinoidia, and fossil insects of N. and S. America in ex. for fossils of Europe. Has 700 species in pairs to dispose of.\*

Bayet, Louis, Ing., Walcourt. Geol., Palao. Ex.
Béclard, Ferdinand, Sec. de la direction, Mus. Roy. d'Hist. Nat., 31 Rue
Vautier, Brussels. Invert. Palao.\*
Bodart, Curé à Anhée, par Dinant. Ent., Bot.
Boddært, Albert (Care of Prof. R. Boddært), Ghent. Comp. Anat., Worms

espec. desired. Nat. Hist. of Flanders.
Bougnet, Eustache, Ing. en chef, Dir. hon. des mines, Jemeppe. Geol.
Boulenger, Herman, 131 rue du Collège, Brussels. Photog., Stamps. C.

Ex.\*

Braconier, Ivan, Propriétaire au château de Modave. Geol., Palæo., Anth.

Breithof, Nicholas, Ing., Prof. Univ., 54, rue du Canal, Louvain. Geol. Briart, Alphonse, Ing. en chef des charbonnages de Mariemont et Bascoup, Morlanwelz. Geol., Palæo.

Bris, Artus, Ingénieur, Chenée. Phan. and Crypt. Bot.\*

Bruggen, Louis van der, 109 rue Belliard, Quartier Leopold, Brussels. C. Fossils.\*

Bruyne, C. de, Asst. Embryol. u. Histol., Univ. de l'Etat, Gand. Cabeau, Abbé Joseph, Curé de Chaumont à Florennes. Orn., Ool., Cole-

opt., Lepid. C. Ex.
Cabeau, Chas., abbé, Dir. de l'Ecole d'Agric., Virtou. Ent., Elect.
Wishes to ex. Lepid. and Coleopt. of Belgium for exotics.

Candèze, Dr. Ernest, Glain, near Liège. Ent., Elateridæ. C. Ex. Candèze, Lèon, Glain, near Liège. Ent., Sphingida, Bombycida.

Ex. Carnoy, Dr. J. B., Prof. Univ. Louvain, rue du Canal 22, Louvain. Bot.,

Mic., Cellular Biol. Cartuyvels, Jules, Ing., Dir. de l'Admin. de l'Agric., 40, rue Breydel Brussels. Geol.

Casteele, Dé van de, rue de l'Ouest, Liège. Arch.

Cesàro, Guiseppe, Prof., 5, rue Duvivier, Liège. Min. Ex.

Clautriau, Dr. George, Assist. l'Inst. Bot., 36 rue Botanique, Brussels. Bot., Physiol. Chem.

Clerfayt, Adolphe, Ing., Maître de Carrières, Esneux. Geol.

Cogels, Paul, Propriétaire au Château de Boeckenberg, Deurne, par Anvers. Geol., Palæo.

Cogniaux, Alfred, Prof., Avenue Hanlet 25. Verviers. Bot: Monographe du Cucurbitacées, Mélastomacées, Orchidées. C. Collon, Auguste, 8. rue Bertholet, Liège. Min. Ex.

Cornes, Jules, 36, Chaussée de Bruxelles, Ledeberg-les-Gand. Geol., Min., Palæo.

Corput, Dr. B. Ed. van den, Prof. à l'Université, 19 Avenue de la Toison

d'or, Brussels. Therapeutics. C. Ex. Coubeaux, Engène, 24 rue Vilain, XIII. Ixelles Bruxelles. Gen. Nat. Hist., Ent., Hemipt. C., esp. of Belgium. Ex.\* Crépin, Francois, Dir. du Jardin Bot. de l'etat, Brussels. Bot.

Crismer, Léon, 46, rue Pont-d'Ile, Liège. Chem.

Crocq, Dr. J., Prof. Univ., rue Royale 110, Brussels. Geol., Min., Palæo. C. Ex. minerals and rocks of Europe for those of all parts of the world.

Dastot, Dr. Adolphe, Chirurgien-oculiste\_de l'Inst. Ophtalmique Provincial, Mons.\*

Davreux, Paul, Ing., 14, rue Lefrancq, Schærbeeck. Geol.

De Ceuleneer, Dr. Adolf, Prof. Univ. of Ghent, Ghent. Bibliog., Anth., Arch., Eth., Ethnog., Philol.

De Cort, Prof. Hugo, 61, rue d'Ecosse, Brussels. Mollusks, espec. Ma-rine Pelecypoda. C. Ex. Only good specimens desired. Correspondence solicited.

De Dordolot, Henry, D.D., Prof. Cosmology, Univ. of Louvain, 10 Rue au vent, Louvain. Strat. Geol., Palao., Chem., Physics, Gen. Biol., Zool. Emb., Bot.

De Jær, Ernest, Ing. en chef, Dir. des mines, 22, rue de la Chaussée, Mons. Geol.

De Jær, Jules, Ing. en ehef, Dir. au eorps des mines, 4, rue Vieux-

Marché-aux Bêtes, Mons. Geol. Dejardin, Louis, Ing. au corps des mines, 40, rue du Jardin Bot., Liège. Geol.

De Koninek, L. L., Dr.Sc., Ingén. honor. des mines, Prof. ordin. à l'Univ., en hiver: Quai de l'Université, 1; en été: Hamoir-sur-Ourthe (Province de Liège) Analyt. Chem. C. Ouvrages de Chem. Analyt. antérieur à 1848.\*

Delboeuf, Prof. J., Bonlevard Frère-Orban, 32, Liège. Psychol., Philol.\* Delsaulx, Rev. P. Joseph, Prof. Phys., rue des Récollets 11, Louvain.

Phys., Math.

Delsaux, Emile, Liège, rue Grétry. Gen. Biol., Physiol.

Delvaux, Emile, Capitaine de Cavalerie, 216, ave. Brugmann, Ueele. Geol., Pulæo.

De Marbaix, Prof. Alphonse, Louvain. Zootomy. De Marbaix, Henri, Asst. à l'institut d'Anat.-Pathol. et de Pathol. générale, Louvain.

De Moffarts, Ferdinand, Château de Stré par Huy. Coleopt. C. Ex. Denis, Hector, Prof. Univ. de Bruxelles, 42, rue de la Croix, Ixelles.

Geol., Anth.

Denys, Ernest, Ing., Havré. Geol.

Denys, Jos., rue des Joyeuses Entrées 20, Louvain. Anat., Gen. Pathol. et Bacteriol.

De Pierpont de Rivière, Edouard, Château de Rivière, Profondeville. Arch. (spec. praehist.), Geol., Min., Crystall., Anth., Eth., Ethnog., Philol. C. Ex. Desires fiints and ancient stone implements.\*
De Puydt, Marcel, rue Bertholet, Liège. Anth.
Destinez, Pierre, Préparateur à l'Univ., 9, rue Ste. Julienne, Liège

Geol., Palæo.

Dewalque, Francois, Ing., Prof. à l'Univ., 26, rue des Joyeuses Entrées,

Louvain. Geol., Chem.

Dewalque, Gustave, Prof. ordinaire de Géol. et de Geog. Phys. à l'Université, 17, rue de la Paix, Liège. Geol., Palæo. C. Ex. Desires fossils espee. Devonian, and offers Minerals and Fossils of Belgium.\*

De Wildeman, Dr. E., Attaché au Jardin Bot. de l'Etat, Brussels. Bot., Algæ.

Dollo, Louis, Conservateur au Mus. Roy. d'Hist. Nat., 31, rue Vautier, Brussels. Veg. Palæo., Gen. Biol., Vert. Anat.\*

Donckier de Doneeel, Charles, Ing., 56, rue Bodeghem, Brussels. Dormal, Vietor, Doet. en Sei. Nat., Wâret l'Evêque, par Héron. Geol. Drosten, Robert, Fabrieant d'appareils seieutifiques et de mieroseopie Brussels, rue des Boiteux 23. Bot., Emb., Anat., Histol. C.

Dubois, Mathieu, Ing., Dir. des Charbonnages de Marihaye, Flémalle-Grande. Geol.

Dugniolle, Max., Prof. à l'Univ., 57, Coupure, rive gauche, Gand. Geol.

Dulait, Jules, rue de Montigny, Charleroi. Geol.
Dumont, André, Ing., Prof. à l'Univ. de Louvain, 51, Longue rue d'

Argile, Anvers. Geol.

Dupire, Arthur, Ingénieur, Dour. Geol.

Dupont, Edouard, Dir. du Musée Roy. d' Hist. Nat. de Belgique, Brux-

elles. Vert. Palæo., Strat. Geol., Anth., Ethnog.\*

Durand, Fmile, 24, rue Albert-de-Latour, Schærbeek (Brussels). Chem.

Durant, Henry, Ing., 32, ave. d' Auderghem, Brussels. Geol.

Durant, Prudent, Montigny-sur-Sambre Geol.

Duvivier, Antoine, Diegliem près Brussels. Ent., Coleopt. of Africa, Phytophaga of all parts of the world, Coleopt. C. Ex. Englebert, Félix, Ing., 47, rue Juste-Lipse, Brussels. Geol. Erens, Alphonse, Doct. en Sci. Nat., Fauquemont (Limbourg hollandais).

Geol., Palæo. Errera, Dr. Léo, Prof. à l'Université, 1 place Stéphanie, Brussels. Bot.\* Ertborn, Baron Octave van, 14, rue des Lits, Anvers. Geol., Palao. Faly, Joseph, Ing. prin. au eorps des mines, 36, rue Chisaire, Mons.

Geol.

Felix, Dr. Jules, Médecin honoraire de la Maison de S. M. le Roi des Belges, Chirurgien et administrateur de l'hospiee Ste. Gertrude, délégué du Gouvernement au Congrés international d'hygiene de Londres; 10 rue Marie de Bourgogne, Brussels. Specialiste pour les affections cancéreuses. Hygiene.

Firket, Adolphe, Ing. et Chef-Dir. des mines, chargé de cours à l'Univ.,

28, rue Dartois, Liège. Geol. Firket, Charles, Prof. à l'Univ., 125 rue Louvrex, Liège. Pathol., Bacteriol., Parasites.\*
Foettinger, Dr. Alex., Se.Dr., Prosecteur d'anat. eomparée, Univ. de

Liège.

Forir, H., Ingénieur répétiteur à l'école du Mines, rue Nysten 19, Liège. Fournier, Dom Grégoire, O.S.B., Abbaye bénédictine de Maredsons, Namur. Palæo., Geol., Min., Arch C. Ex. Fraipont, Julien, Doet. en Sci. Nat., Prof. à l'Univ., 17, rue Mont St. Mar-

tin, Liège. Palæo. Ex.

Francotte, P., Prof. à l'Athénée Royal, Brussels. Med., Photo-Microg. Frederieg, Léon, Prof. à l'Univ., rue de Pitteurs 18, Liège. Gen. Biol., Physiol. C.

Gedoelst, Dr. Louis M., Prof. ecole de méd.-vétérinaire de l'état à Cureghem (Brussels), rue du Canal 20, Louvain. Mic., Gen. Biol.,

Gernært, Léon, Ing. des Mines, 15 rue des Anges, Liège. Geol., Lepid., Coleopt.

Giele, Jean François, Dir. des Cultures du jardin botanique, Voer des Capueins, Louvain.

Gilkinet, Alfred, Prof. Univ., rue Renkin 13, Liege. Geol. Gilson, Eugène, Prof. Univ., Gand. Org. Chem., Gen. Biol.

Gilson, Gustave, Prof. Univ., Louvain. Zool., Comp. Anat., Embr., Prehist.

Goret, Léopold, Prof. de chimic indust. à l'Ecole des Mines, 21, rue Ste. Marie, Liège. *Chem., Geol.* Gravis, Dr. A., Prof. de Botanique à l'Univ., Dir. du Jardin botanique de

Guequier, Jules, Préparateur à l'Univ., 70, quai des Tuileries, Gand. Geol., Lithol.

Habets, Alfred, Prof. of Mining, Univ., 4, rue Paul Devaux, Liège. Geol., Metall., Mining.\*

Halleux, Arthur, Ing des Mines, 3, rue des Eburons, Liège. Geol. Heger, Paul, Prof. de physiol. à l'Univ., rue des Drapiers 35, Brussels.

Elect., Gen. Biol., Anth.

Hennequin, Emile, Lieut. Col. d' Etat-Major, Dir. de l'Inst. Cartographique militaire, à la Cambre, Bruxelles. Phys. Geol.

Hock, Gustave, Prof. à l'Athenée, 27, boulevard Beauduin de Jérusalem, Mous.

Hubert, Hermann, Ing. au Corps des Mines, rue Fabry, Liège. Geol.

Ide, Manille, Louvain, rue du Canal 20. Histol.

Jacob, Makoy & Co., Liège. Bot. C. of plants.\*

Jamme, Henri, Dir. des Mines et Usines de la Vieille-Montagne, Moresnetneutre (Calamire). Geol.

Janssens, Franz A., Pr. en Sci. Nat., Prof. à l'Ecole Teeh. de Brasserie, rue d' Argent, 1, Gand. Mic., Zool., Gen. Biol., Histol., Mol-Jorissen, Armand, Doet. en Sei. Nat., Agrégé spécial à l'Univ., 110, rue

Sur-la-Fontaine, Liège. Chem., Geol.
Jorissenne, Dr. Gustave, boulevard de la Sauvenière 130, Liège. Pathol., Physiol., Bot., Geol. C. of plants, rocks, and fossils of Belgium. Julin, Ch., Prof. Univ., rue Bassenge 46, Liège. Mic., Anat., Compar.

Kennis, Guillaume, Ing. des Arts, Manufactures et des Mines de l'Ecole de Liège, 12 rue Robiano, Schærbeck, Brussels. Geol., Metall. Kerremans, Ch., Captain of Belgian Army, 31 rue du Lae, Brussels.

Coleopt., Spec. Buprestida.\*

Klement, Constantin, Aide Nat. au Musée Royal d'Hist. Nat., Brussels.

Min., Inorg. Chem\*

Koltz, Jean P. J., Inspecteur des forêts, Luxembourg. Bot: Phæn. and Crupt. Plants, Emb., Ichthyol. C. Ex.
 Kuborn, Hyaeinthe, Dr. Med., Prof. à l'Univ. de Liège, Scraing, Liège.

Gen. Biol.

Lamecre, Auguste, Dr. Sc., Prof. à l'Univ., chaussée de Charleroi, 119, Brussels. Biol.

Laurent, Dr. Emile, Prof. de Bot. à l'Inst. Agrie., Gembloux. Bot.\* Leclercq, Jules, Président de la Société Royale Belge de Géographie, avenne de l'Astronomie 25, Brussels. Geog. Dist.

Lejeune, Octave, Ing. des Mines, 8 place St. Lambert, Liège. Geol.

Levieux, Fernand, 151 ave. Louise, Brussels. Bibliog., Arch.\*

Libert, Joseph, Ingénieur principal au Corps des Mines, Ingénieur Elect., boulevard Audent, 108, Charleroi. Geol., Elect.\*

Loë, Baron Alfred de, See, de la Soc. d'Arch. de Brussels, 11 rue de

Londres, Brüssels. Geol., Anth., Arch., Ethnoy.

Lohest, Max, Ing., Rivage, Comblainan Pont. Vert. Palao., Geol. C.

Lohest, Paul, Ing. Civil, 2 rue Rouveroy, Liège. Geol., Min.\* MacLeod, Julius, Prof. Univ., Plantentiun, Ghent. Bot. C. Ex.

Macquet, Auguste, Ingénieur, Dir. de l'Ecole des Mines du Hainaut. houlevard Dolez, Mons. Elect.

Malaise, Constantin, Prof. Inst. Agric., Gembloux. Geol., Palao., Min. Ex.

Malvoz, Ernest, rue de Bruxelles, Liège. Bacteriol. Marchal, Emile, Préparateur au Lab. de Biol. de l'Inst. Agrie., Gembloux. Bot.

Marchandise, Clément, Prof. de l'Ecole d'Hort., Vilvorde. Bot.

Marcotty, Desiré, Ing., Montegnée, par Ans. Geol. Mareq, Dieudonné, M.D., Carnières. Geol.

Massart, Dr. Jean, Asst. à l'Inst. Bot., 36 rue Botanique, Brussels. Bot., Zool.

Mertens, Albert, rue Marie de Bourgogne 20, Brussels. Coleopt.\*
Mertens, Gaston, rue Marie de Bourgogne 20, Brussels. Coleopt.\* Moens, Jean, Avocat à Lede. Palao., Anth., Arch., Eth. C. Ex.

Mourlon, Dr. Michel, Agrégé à l'Université, Conservateur an Musée Royal d'Histoire Naturelle, rue Belliard, Brussels. Strat. Geol., Upper Devonian and Tertiary. C. Ex. for the Museum. Nyeland, Stephen, Dir. Hort, School, Vilvorde, C. Perennial Plants.

Nypels, Paul, 7 rue Forgeur. Liège. Bot., Phytopathol. Otreppe de Bouvette, Frédérie, Baron d', 5, rue des Carnies, Liège. Chem., Geol.

Overloop, Eugène van, 48, rue Royale, Bruxelles. Arch., Anth. Pâque, E., S.J., Collège Notre-Dame de la Poux, Namur. Phæn. and Crypt. Bot., Mic C. Herbs of Belgium.\*

Paquot, Remy, Ing., Montzen. Geol.

Pavoux, Eugene, Ingénieur, rue Delaunoy 14, Brussels. Palæo., Geol., Min. C. Ex.

Min. C. Ex.

Pelseneer, Paul, Prof. Dr., Normal School, Ghent. Morphol. of Moll.

Perard, Louis, Ing., Prof. Univ. 101, rue St. Esprit, Liège. Physics. Pergens, Dr. Ed., Maeseyek. Living and Fossil Bryozoa. C. Ex.\*

Petermann, Dr. Arthur, Gembloux (Namur). Directeur de la Station agronomique de l'Etat, et Professeur à l'Institut agricole de l'Etat, Membre de la Commission de Surveillance des laboratoires d'analyses de l'Etat. Chem., Physiol., Mic.\*

Petit Bois, Gustave, rue Louvrex 37, Liège. Geol. Piret, Adolphe, 22, rue du Château, Tournai. Geol., Palæo. Ex. Plateau, Félix, Prof. de Zool. et Anat. Comp. à l'Univ., Dir. du Musée,

Pattent, Frot. de Zool. et Anat. Comp. a I Univ., Dir. di Musee, 152, Chaussée de Courtrai, Grand. Arach., Myriapoda. C. Ex.\*
Poorter, Emile de, Chimiste, 2 boulevard Lousbergs, Ghent. Chem., Geol., Metall., Phys., Elect., Photog., Min., Crystall., Mic.
Poskin, Jules, Dr. en Sci. Nat., Prof. de Zool., Inst. Agric., Gembloux. Algæ, Mic., Ent., Hymenopt., Lepid., Coleopt. C. Ex.
Preudhomme de Borre, Alfred, Rue Scutin 11, Schærbeck, Brussels.
Bibliog., Geog. Dist., Articulates, Coleopt., Hemipt., Myriapoda.
C. Ex.\* C. Ex.\*

Preudhomme de Borre, Julia, rue Seutin 11, Schærbeck, Brussels.

Mollusks. C. Ex.\*

Putzeys, Dr. S., rue Anoul 13, Brussels. Mollusks. European and

Algerian Shells for ex.\* Raeymaekers, Désiré, M.D., 164, rue de la Station, Louvain. Geol.,

Paleo. Renard, A. F., Prof. Univ. Gand à Wetteren-lez-Gand. Geol., Min.,

Lithol., Phys., Geog.\* Reul, Gustave de, Ing., 74, chaussée de Louvain, Namur. Geol.

Reul, Joseph, Ing. aux Charbonnages de Coureelles-Nord, Coureelles. Geol.

Ronkar, Emile, Ing. des Mines, chargé de cours à l'Univ., 249, rue St.

Gilles, Liège. Physics, Geol.

Rutot, Aimé, Mus. Nat. His., Brussels, rue du Chemin de fer 31, St.

Josse-ten-Noode. Geol.

Schmitz, Gaspar, S. J., 11 rue des Récollets, Lonvain. Veg. Palæo. a

Spec., Min., Bibliog. Ex.

Schodt, A. de, Dir. Gén. de l'Enregistrement et du domaine an Ministère

des finances, rue de Londres 15, Brussels. Numis.
Schuermans, H., Premier Prés. de la Cour d'Appel, boulevard Frère-Orban 43, Liège. Arch.

Sélys de Brigode, Baron Raphaël de, 36, boulevard de la Sauvenière, Liège. Anth.

Sélys-Longchamps, Baron Edmond de, Sénateur, Mem. de l'Aeadémie Royale de Belgique, boulevard de la Sauvenière 34, Liege. Orn., Mam., Neuropt.

Severin, Guillaume, Aide Nat. au Mus. Roy. d'Hist. Nat., rue Elise 70, Brussels. Ent.\*

Solvay et Cie, 19, rue du Prinee Albert, Bruxelles. Gen. Biol.
Soreil, Gustave, Ing., Maredret, par Anthée. Geol., Palæo. Ex.
Spring, Walter, Prof. Univ., rue Beekmann 32, Liège. Geol.\*
Staes, G., Assist. botan. garden, Sec. bot. Soe., Ghent. Bot.
Stainier, Xavier, Dr., 70 ehaussée de Wâvre, Brussels. Min., Geol.,

Palæo.

Storms, Raymond F., Château d'Oirbeek, Tirlemont. Vert. Palæo., Vert. Anat., Osteol. C.\*

Stuckens, Maurice, rue Porte aux Vaches, Ghent. Vert., Anat., Moll. Terby, Francois, Docteur en Sciences, Membre de la Société Royale Astronomique de Londres, Observatoire Privé, rue des Bogards 96,

Louvain. Phys., Ast. Tihon, F., M.D., Burdinne. Arch. Tillier, Achille, Pâturages. Geol.

Tosquinet, Dr. Jules, rue d'Eeosse 4 à St. Gilles, Brussels. Ichneumonidæ.

Tras, C. R. P., Prof. an Coll. N. D. de la Paix, Namur. Geol., Palæo.,

Van Bastelær, Désiré Alexandre Henri, Memb. l'Acad. Royale de Méd. et de l'Acad. d'Arch. de Belgique, Offleier de lo'erdre de Leopold, rue de l'Abondance 24, Brussels. Bot., Arch., Pharm., Chem.,

Van Bastelær, Réné Desiré Emile, Attaché à la Bibliothèque royale. Cabinet des estampes, chaussée de Charleroi 126, Brussels. Grav., Arch.

Van Beneden, Edouard, Prof. à l'Université, Iust. Zool., quai des Peeheurs, So., Liege. Emb., Comp. Anat., Zool. C. of the University. Ex. Wishes to receive Tunicates, esp. Ascidians,
Van Beneden, M. P. J., m. asst. étrang. de l'Inst. de France, Louvain. Palæo., Zool., Anat., Crustacea, Worms, Mollusks.\*
Van den Broeck, Ernest, Conserv., au Musée Royal d'Hist. Nat. de Belgique, See. gén. de la Soc. Belge. de Geol., de Paléontol., et al. (Instruction Proposition de la Conserve.)

d'Hydrol., 39 place de l'Industrie, Brussels. Geol., Mic., Protozoa. C. Slides of oolitic rocks, publications upon Foraminifera and Nummulites.\*

Van den Corput, Dr Edouard B., Brussels, 21, ave. de la Toison d'Or.

Org. Chem., Mic., Anat., Arch.

Van Gehuchten, Arthur, Prof. d. Anat., Louvaiu. Histol., Anat.
Van Heurek, Dr. Henri, Dir. du Jardin Botanique, Anvers. Diatoms.
Van Lær, Henri, Dr. en Sci., Prof. de Chimie-miero-biologique à l'Ecole des Milles du Hainaut et à l'Ecole de Brasserie de Gand, 15 rue de Hollande, Brussels. Org. et Microbiol., Chem. C. de ferments,

Vanlair, C., M.D., Prof. Univ. of Liège. Gen. Biol., Histol. of Vert. Van Wilder, Hugo, Instituteur en ehef, Denderwindeke. Bot: Phan. Plants. C. Ex.

Vaux, B. Adolphe de, Ing. des Mines, 15 rue de Anges, Liège. Min., Geol., Mining.

Velge, Gustave, Ing. Civil, Lennick St. Quentin. Geol., Palæo.

Vincent, Gerard, Préparateur au Musée d'Hist. Nat. de bruxulles, 97, ave. d'Auderghem, Etterbeek (Bruxelles). Geol., Palæo.

Watteyne, Vietor, Ingénieur principal des Mines, boulevard Dolez 32, Mons. Geol.\*

Wevre, Alfred de, rue de la Linière 12, St. Gilles-lez-Brussels. Anat., Mic., Chem.. Physiol. Willem, Dr. V., Univ., Ghent. Zool.

Willeno, Vietor, Assist. à l'Univ. de Gand. Desires especially living reptiles.

Witmeur, Henri, Prof. à l'Univ., 12, rue d'Ecosse, Brussels. Min., Geol, Woot de Trixhe, Joseph, boulevard d'Omalius, Namur. Palæo., Geol. Min. C. fossils. Ex.\*

#### BULGARIA.

Demehevsky, Manoil D., Samakov. Bot., Phæn. and Crypt. Plants, Organ. and Inorg. Chem., Phys., Zool. C. Ex. Georghieff, Dr. S., Prof. am Klassengymnasium, Sofia. Florist.

## DENMARK.

Andersen, jun., Godthaabsvei, Copenhagen, F. Bot.

Baagöe, J., Apotheker, Næstved. *Phæn. Bot., Hort., Orn.* C. Ex. Bang, Dr. Bernhard, Prof. Veterinary Pathology, Royal Veterinary and Agricultural Coll., Bülowsvej 11, Copenhagen.

Bartholin, C. T., Copenhagen. Palæo., Bot.
Bauer, Chr. A. P., Cand. Pharm., Rudkjöbing. 1chth., Reptilia und Amphibia.

Bergh, L. Thorshavn, Færö. Bot.

Bergh, Prof. Dr. Rudolph, Phys. to the "Vestre Hospital" of Copenhagen, Stormgade 19, 2, Copenhagen. Zool., lower animals.

Bergstedt, N., Bodilsker pr. Nexoc. Bot.
Boas, Dr. J. E. V., Prof. Zool., R. Agric., Forestrial and Veterinary Coll.,

8, Monradsvej, Copenhagen. Zool.\*

Bohr, Dr. Christian, Physiol. Lab., Bredgade 62, Copenhagen. Gen. Biol.

Börgesen, F., Osterbrogade 24, Copenhagen. Bot., F. W. Algæ.\*

Branth, Rev. J. S. Deichmann, Sneptrup, near Skanderborg. Lichenology.\*

Bremer, W., Gothersgade 165. Copenhagen. Bot. Brunn, Alfred, Den. Kgl. Veter. Landbohöjskol, Copenhagen. Bot.,

Brunn, Sven, The Royal Garden, Bernstorf. Bot. Budde-Lund, Gustav, Reventlowsgade 12, Copenhagen, K. Hemipt., Christensen, Holger, Villa Adelaide, Orden Charlottelund. Bot.

Crust., spec. Isopoda terrestria. C. Ex.\*
Christensen, J. P., Copenhagen, K. Physics, Bot.
Christiansen, Prof. C., Sólvtorvet, Copenhagen, k. Phys.\*
Clément, A., Chemist, Copenhagen. Chem.\*

Collin, Jonas, Lyngby. Zool,\*

Dalskov, Alex., Bot. Gardens, Copenhagen, K. Bot.

Dohlmann, Sophus, F. A., Copenhagen, V. Lepid. C. Ex.\* Eggers, H. F., Baron, Copenhagen. Bot., Flora of West Ind. Elberling, F., 7. Vodrofvei, Copenhagen, V. Bot.

Fabricius de Tengnagel, L., Nykjöbing p. Falster. Fungi.

Fausböll, J., Hassing pr. Thisted. Bot.

Feilberg, C., Osterbrogade 46, Copenhagen. Bot.

Feilberg, Rev. H. F., Askov, near Vejen Station. Bot., Philol., Danish Dialects. Student of Folk Lore; publisher of a Dictionary of Western Danish dialects, 47 sheets printed and published.\* Flindt, H., Inspector of the Royal Gardens, Fredriksberg Runddel,

Copenhagen, F. Bot.\*

Friderichsen, K., Haderslev, Slesvig. Bot., esp. Rubi. C. Ex.

Friedrichsen, Th., Bot Gar., Copenhagen. Bot. Friis, H., 45 Norre Farimagsgade, Copenhagen, K. Bot.

Gad, C., Overlæge, Viborg. Bot. Fungi.
Gelert, Otto, Cand. Pharm., Korsgade 8, Copenhagen, N. Bot., Rosacea.
C. Ex.

Gram, Dr. J. P., Alhambravei 6, Copenhagen, V. Math. Grönlund, Chr., Prof., Monradsvei 17, Copenhagen. Bot. Gram, Hans, Koldemosegaard, Soröe. Bot.

Hallas, Y., Sonderborg. Bot. Hannover, A., M.D., Prof., Gl. Kongevej 91, Copenhagen, V. Hansen, A., Gamle Carlsberg Have, Valby. Bot.

Hansen, Carl, Prof. ord., Roy. Superior Agric. Acad. of Denmark, Copenhagen. Bot., Conifers, Cones, Herbariums, Living Plants and Cones

of Conifera. C. Ex.\*

Hansen, Prof., Dr. Emil Chr., Vorstand des Physiologischen Laboratoriums Carlsberg, Copenhagen. Physiology of Plants and Fer-

mentations,\*

Hansen, Dr. H. J., Zoological Mus., Copenhagen Zool., Ent. Hansen, Dr. P. C. V., Sortedamsgade 7, Copenhagen, N. Math.\* Hartz, N., Bot Garden, Copenhagen. Bot., Arctic Plants., Veg. Palæo. Hausehild, Louis, 39 Jagtvei, Copenhagen, L. Bot.

Heiberg, C. C. B., Apotheker, Nörrebrogade, Copenhagen, N. Bot. Helweg, L. del., Redacteur, See. de la Royale Danoise Soc. d'Hortieul-

Heiweg, L. det., Redacteur, See. de la Royale Danoise Soc. d'Hortieulture, Copenhagen. Bot.\*
Hempel, P., Apothek, N. Farimagsgade, Copenhagen. Bot.
Henningsen, Valdemar, Regentsen, Copenhagen. Phæn. and Crypt.
Bot., Veg. Palæo. C. Ex.
Hintze, Vilhelm, Asst. Museum, Vesterbrogade 13, Copenhagen. Geol.,
Min., Lithol., Mic.. Photoq.\*
Hoeg, Petersen, Bot. Gardens, Copenhagen, K. Bot.
Hohlenberg, J. S., Nörregade 17, Copenhagen. Naut. Meteo.
Hörring, A. F., Physician. Römarsgade 7. 1. Copenhagen. K. Bot.

Hörring, A. F., Physician, Römarsgade 7, 1, Copenhagen, K. Bot. Jensen, Arnold, Commander Royal Navy, Osterbrogade 48, Copenhagen. Phys., Geographical Dist. Corresponds in English, French and

Jensen, Chr., Hvalsö Apothek, Hvalsö Station. Mosses. C. Ex.

Jensen, Hj., Bot. Garten, Assist. am pflanzenphysiol. Laborat., Copenha-

gen. Bot. Jensen, J. L., Director, 6 Uraniavej. Copenhagen, V. Fungi, diseases of cereals and potatoes.\*

Jensen, Marins, Cand. Pharm, Naturalist, Amerikavej 24, Copenhagen, V. Spec: Arctic Natural Curiosities of all kinds. Palaco., Min., Crystall., Anth., Vert., Manmals, Orn., Ool., Herpetol., Ichthyol., Ent., Invert. Sell or ex. Arctic Animals. C. Ex.

Jensen-Tuseh, Harald, Col., Frederiksberg, Bredegade 21, Copenhagen. Bot. C.

Jeppesen, Forstander for Staby Höjskole, Ulfborg Station. Danish Bot., esp. Fungi and Characeae. C. Offers plants and seeds for foreign, esp. from the tropies.

Jeppesen, J. Kr., Sejersler pr. Nykjöbing. *Phæn. Bot., Ferns, Mosses*. C. Ex. Offers Phanerogams and Cryptogams of No. Europe, and wishes plants from all foreign lands.

Jeppesen, Seminarielærer, Gjedved, Horsens. Bot. Ex. Mosses.\*
Johannsen, W., Frydendalsvej, Copenhagen. Bot., Veg. Physiol.
Johnstrup, Fr., Prof. u. Director des Mineral-geogn. Museum der Universität, Copenhagen. Min., Geol.

Jörgensen, Alfred, Director of Physiol. laboratory for the fermentations, Frydendalsvej 30, Copenhagen, V. Courses of instruction in the physiology and technology of fermentation. Preparation of rure cultures of the different microorganisms of fermentation after

Hausen's Method.\* Jörgensen, Dr. S. M., Prof. an der Universität, Sölvgade, Polyteehn.

Lehranstalt, Copenhagen. Chem.

Jungersen, Dr. H., Lecturer of Zool. at the Royal Polytech. Sch. of Copenhagen, 36, Sölvgade, K., Copenhagen. Zool., Comp. Anat., Anthozoa.\*

Kiærskou, Hjalmar, Inspector of Botanical Mus., and teacher of Bot. at the Royal Polytechnical School, Botanical Garden, Copenhagen. Bot. and Tech. Bot.\*

Kjeldahl, J., Carlsberg Laboratory near Copenhagen. Chem. Krabbe, Dr. Harald, Lehrer der Anatomie u. Physiologie bei der k. Veterinärschule, Monradsvej 19, Copenhagen. Vet. Anatomy, Helminthology.

La Cour, Poul, Lect., Inventor of the Phonic Wheel, Light Telegraph, Kratostate, etc., Askov near Vejen. Phys., Elect., Meteo.\*

 Lange, A., Bot. Gardens, Copenhagen, K. Bot.
 Lange, Prof. Dr. Johan, Thorvaldsens Vej 5, V. Copenhagen. Member Roy. Acad. of Sciences, Editor of the "Flora Danica." Bot. Wishes N. American plants, espec. trees and shrubs, in ex. for N. European and Greenland plants.\*

Lassen, Prof. Dr. J.. Sortedamsgade 3, N. Copenhagen. Bot.

Levinsen, Marius G. R., Inspector, Dir. Dept. Worms, Mollusca, Echinodermata, Cœlenterata et Protozoa, Zool. Mus., Copenhagen. Worms, Radiates, Sponges, Polyzoa. Ex.

Lind, N., Ribe. Bot. Löffler, Dr. E., Prof. of Geog. at the Univ., Copenhagen, Lindevei 9.

Geog.\*

Lotze, Gustav, Pres. Pharm. Assoc. of Denmark, Dir. Mus. of Antiquities, Odensc. Bot., Hort., Min., Arch. C. Ex. Am. Antiquities for corresponding coll. of Danish in silex.

Lowzow, A. G., Slettegaard pr. Helsinge. *Bot.*Lundbeck, Will., Zool. Mus., Copenhagen. *Ent.*, Coleopt. C. Ex.
Lütken, Christian F., Dr. Phil., Prof. Zoöl. and Dir. of Dept. of Vert. in the Zoological Museum, Univ. Copenhagen, Nörregade 10, Copenhagen. Gen. Zool., Palæo., Cetology, Ichth.
Lynge, Herm., Gamle Kongevej 72, Copenhagen. Con. C. Ex.\*
Madsen, H. P., Vesterbro Apothek, Copenhagen. Bot.\*

Madsen, Victor, State Geol., 10 Kastanievej, Copenhagen. Palaco., Glacial Geol., Moll., Protozoa. C. Ex.\*

Mathiesen, Jens, Korsoer. Bot.

Meinert, Dr., Kong Georgs Vej 19, Copenhagen. Mentz, A., Copenhagen. Bot., Anat. Moltke, E. G., Norager pr. Ruds Vedby. Bot.

Mortensen, H., Jonstrup pr. Ballerup. Bot.
Mortensen, H., Jonstrup pr. Ballerup. Bot.
Nielsen, P., Tystofte pr. Skjelskör. Bot.
Nielsen, Victor, Member British Ast. Assoc., Privat-Observatoriet, Copenhagen, V. Selenographical and Astropholographical Purposes.\*
Nyeland, S., Vilvorde pr. Charlottenlund. Bot. Gardening.

Olsen, Carl, Zool. Gardens, Copenhagen, F. Bot. Ottesen, L. O. C., Jagtvej 81, N. Copenhagen. Bot.

Peehyle, Dr., Observatory, K. Copenhagen. Ast.
Pedersen, N., Norager Vaaseskov pr. Ruds Vedby. Bot.
Pedersen, Prof. R., Bot. Garden, Copenhagen. Veg. Physial.
Petersen, Daniel E., Christiansholm, Valby. Bot.

Petersen, Dr. C. G. Joh., Dir. Marine Biol. Station of the Danish Gov't., Copenhagen. Zool., Fishes, Moll.\*

Petersen, O. G., Bot. Lector, Mynstersvei 12, Copenhagen, V. Bot.\*

Petersen, Dr. Peter C. J., Prof. at the Univ., Copenhagen. Math.\*

Petersen, S., Slotsbjergby pr. Slagelse. Bot. Petit, E., Harsdorfsvej, N. V. Copenhagen. Bot.

Piper, H. A. T., Hjorte-Apotheker, Gothersgade, Copenhagen. Bot. Posselt, Henrik J., Asst. Zool. Mus., Univ., Copenhagen. Ichth., Moll., esp. Cephalopods. C. Ex.\*

Poulsen, A. F. W., Dir. Meteo. Inst., Copenhagen. Meteo.

Poulsen, H. F., N. Ooslöv pr. Præsto. Bot.

Poulsen, J. C., Odense. Bot.

Poulsen, Viggo A., Ph.D., Rosenvængets Hovedvej 29, Copenhagen. Bot.

Prytz, C. V., Prof. Forestier, 19, Valdemarsgade, Copenhagen, V. Silvi-

cultur, Econ. Forestry.\*

Prytz, Prof. P. K., 12 Falkonergaardsvej, Copenhagen, V. Phys.\*

Rasch, C., M.D., Graabrodretorv 5, Copenhagen, K. Bot., Marine Algæ.

C. Ex. Wishes Algæ in ex. tor N. European Algæ.

Raunkior, C., Villa Sophiesminde pr. Charlottenlund. Bot., Biol. of the

Phanerogames, Myxomycetes, Fungi.\*

Reimers, D., Aarhus. Bot. Rördam, K., Dr. Phil., Copenhagen. Geol\*

Rosenberg, Caroline, Hofmansgave pr. Otterup Station. Bot: Alga. Rosenvinge, J. L. A. Kolderup, Bot. Museum, Copenhagen. Bot: Alga.\*

Rostrup, E., Prof. Bot., Copenhagen, V. Bot: Fungi.\*
Rostrup, O., Copenhagen, V. Bot., Mycol., Seed control.\*
Rudmose, N., Nylandsvej 3, Copenhagen. Bot.
Rung, G. A., St. Kongensgade 85, Copenhagen. Meteo.

Rützon, Sophus, Doeent, Osterbrogade 3, Copenhagen. Bot., Phar-

macognosi.\* Salomonsen, Dr. Carl Jul., Höjbroplads 9, Copenhagen, Prof. of Medical Baeteriology, Univ. of Copenhagen.

Sarauw, Georg F. L., 24 Frederiksberg Allée, Copenhagen, V. Forestry, Veg. Physiol., Bot., Fungi, Veg. Palæo., Geol., Agric. Chem., Meteo., Zool., Herpetol., Arch., Philol.\*

Schnidt, Th. B., Odense. Bot.
Schmidt, M. P., Hoeiskolehjemmet, Helgolandsgade, Copenhagen, V. Schmidt, Vald., Dvergetved pr. Kvissel. Bot.

Bot. Seehusen, V. L., Copenhagen. Bot. Steenstrup, Dr. Japetus S., Prof. Univ., Copenhagen. Zool., Geol. Steenstrup, K. I. V., of the Geol. Survey of Denmark, Forhaabningholms Allé 10, Copenhagen, V. Geol. of Greenland.\*

Stockfleth, P. T., V. Rosenvængets Alle 15, Copenhagen. Bot.

Tauber, P., Copenhagen. Zool.
Thiele. Prof. Dr. Thorvald Nicolai, Observatory, Copenhagen. Ast.\* Topsöe, Dr. Haldor, Inspecteur Royal des Fabriques, Prof. à l'Académie Militaire, Copenhagen, V. Chem., Crystal.

Traustedt, M. P. A., Adjunkt, Herlufsholm pr. Næstved. Zool., Tuni-

cata.

Ussing, N. V., Docent, Univ., Copenhagen. Min., Lithol.\* Vestesen, B. Q., Copenhagen. Bot.

Vetlefsen, C., Olensegade 13, Copenhagen, K. Inorg. Chem.
Vilandt, Dr. Hans N. P., Ribe. Bot., Upperaceæ, Fossils. C.
Warming, Prof. Joh. Eug. Bülow, Ph.D., Dir. Botan. Garden, Copenhagen. Morphol., Phen. Bot., Arctic Plants, Phyto-geog.\*
Wiinstedt, Dr. St., Fredriksgade 9, 1, Copenhagen, K. Bot.

Winge, H. A., Zoological Mus., Copenhagen. Zool., Mam. Zahrtmann, Hans, Hornslet, near Aarhus. Bot., Insect fertilization. Zeuthen, Prof. Dr. Hieronymus G., Univ., Copenhagen. Math.

## FINLAND.

Alfthan, A. E., Mag. Phil., Helsingfors. Econ. Geog.

Appelgren, Dr. O Hjalmar, Conservator des Archeologischen Museums zu Helsingfors, Arch.\*

Arppe, Prof. Dr. Adolph E., Senator, Helsingfors. Chem.

Arrhenius, Dr. Axel, Assist. Bot. Mus., Univ., Helsingfors. Phan. Bot.

C. Ex.\*
Berghell, H., Geol. Survey of Finland, Helsingfors. Lithol., Archæan and Glacial Geol.

Bergroth, Dr. E., Tammerfors. Ent., esp. Hemipt. Biese, Ernst, Dir. Meteorol., Centralanstalt, Helsingfors. Phys., Elect., Meteo.\*

Blom, E. W., Tavastehus. Bot: Phænerogams.

Blomquist, Evors. Bot. Thenerogeness.
Blomquist, Evors. Bot.
Bockström, A. J. A., Dir. Statist. Central Bureau, Helsingfors. Statistics.
Boldt, Ch. Em., Ph. Magister, Helsingfors. Bot., Geog. Dist.\*
Boldt, Robert, Ph.D., Annegatan 7, Helsingfors. Bot: Alga, Desmids.\*
Bomansson, J. O., Aland, Saltvik. Bot.: Mosses.

Brenner, M., Schuldirector, Helsingfors. Bot. Brotherus, V. F., Ph.D., Helsingfors. Bot: Bryol., Mosses.\*

Collan, Uno, Chemist, Helsingfors. Chem., Phys.\*

Collin, Dr. Otto, Lehrer, Tawastehus. Phan. Bot., Orn., Ool. C. Ex.

Cygnaeus. J., Dr., Kuopio. Chem. Donner, Prof. Anders, Dir. Sternwarte, Helsingfors. Ast.

Donner, Prof Dr. Otto, Universität, Helsingfors. Philol., Anth. Dreijer, K. G., Observator, Helsingfors. Ast.

Ehnberg, K. J., Forstkonduktor, St. Michel. Lepid. C. Ex.

singfors. Bot, Algæ.\*
Engström, O. I., Dr. Med., Prof. extraordinary of Univ., Helsingfors.

Gynæcol.\* Elfving, Fredrik, Prof. de Bot. à l'Univ., Dir. du Jardin Botanique, Hel-

Erikson, Dr. E., Helsingfors. Bot.\*

Freudenthal, Prof. Dr. Axel-Olof, Universität, Helsingfors. Philol. Frosterus, B., Ph.D., Geol. Survey of Finland, Helsingfors. Lithol., Archæan and Glacial Geol., Petrog.\*

Grotenfel, Dr. G., Dir. Landw. Inst., Mustiala. Agric., Bacteriol. Hackman, V., Mineral. Inst. Univ., Helsingfors. Petrog.

Hammarström, Rudolf, Abo (Finnisches Lyceum). Phan. Bot., Geog. Dist., Hymenopt., Coleopt. C. Ex.

Heikel, Axel O., Dr. Phil., Intendent bei der Arch. Commission, Helsingfors. Arch.\*

Heikel, Dr. Oskar, Helsingfors. Orn., Ool.

Heinrichs, Axel, Assist. d. Meteorol. Centralanstalt, Helsingfors. Meteo.

Heinrieius, G., Dr. Med., Prof., Univ., Helsingfors. Gynæcology.\* Hellström, Dr. F. E., Phil. Mag., Gamla Karleby. Hort., Vol., Lepid. C. Ex.

Herlin, Rafaël, Phil. Mag., Forstmeister, Helsingfors. Geol., Bot.

Herlin, Ratael, Fill. Mag., Forstmetster, Heisingtors. Geot., Bot. Hisinger, Baron Edward, Ph.D., Fagervik, Station de Karis. Bot: Fungi, Algæ, Mic., Orthop., Neuropt., Hort., Agric. Hjelt, Ed., Prof., Univ., Helsingfors. Org. Chem. Hjelt, Hj., Lector, Wasa. Phæn. Bot. Homén, Dr. W. Th., Doc. Univ., Helsingfors. Physics, Meteo. Homén, E. A. Th., Dr. Med., Prof. Univ., Helsingfors. Path., Anat. Hougherg, Dr. Emil, Helsingfors. Orn., Ool. C. of eggs of Finland. Ex.

Hult, R., Dr. Phil., Univ. Docent of Geog., Helsingfors, Pres. Geogr. Soc. of Finland. Phys. Geog., Geol. and Bot. Ex. maps, photogr., minerals, dried plants and rare materials of Finland for those of other countries, for the mus. of the Geogr. Soc.

Ignatius, K. E. F., Dr., Senator, Helsingfors. Statistics, Geog. of Fin-

land.\*

Järnefelt, A. A., Gouverneur, Generallieutenant, Helsingfors. Topography.

Juslin, Edward, Helsingfors. Bot. Juslin, Fd., Dr. Phil., Helsingfors. Inorg. Chem. Karsten, P. A., Ph.D., Mustiala. Fungi.

Kihlman, Dr. A. Oswald, Docent, Univ., Helsingfors. Bot: Flora of Finland.\*

Laurén, Dr. Walter, Helsingfors. Physiol.

Lemström, Prof. Dr. Charles-Selim, Univ., Helsingfors. Phys., Elect., Levander, K. M., Amanuens., Zool. Mus. der Univ., Helsingfors. Zool.,

Protozoa.\*

Lindberg, Harald, Lojo. Bot. Mosses, Phanerog.

Linden, F. John H., Magister, Sortavala. Bot., Photog. C. Fx.\* Lindman, Dr. Werner, Med. Doktor, Provincialarzt, Kalajoki. Orn., Ool.\*

Lûndén, Ossian, Wasa. Bot.

Mäklin, Hugo, Mech. and Elect. Engineer, Helsingfors. Phys., Elect.,

Malmgren, Prof. Dr. André-Jean, Gouverneur, Uleaborg. Zool., Fishery.

Mela, A. J., Lector, Helsingfors. Vert., Moll.

Melander, Dr. Gustaf, Docent, Univ., Helsingfors. Physics.\*

Mclander, Dr. Gustaf, Docent, Univ., Helsingfors. Physics."
Moberg, Charles Adolph, F. M., Bergmästare, Helsingfors. Geol.
Moberg, K. A., Ex. Dir Geol. Survey, Helsingfors. Geol.
Montell, Justus E., Helsingfors, Mikælsgatan 2. Ent: Lepid.
Nervander, J. H. E., Ph.D., Wiborg. Bot.
Nordqvist, O., Inspector of Fisheries, Helsingfors. Zool., Vert., Crust.
Norrlin, J. P., Dr., Prof. Univ., Helsingfors. Bot., Lichens, Hieracium.
Palmén, Prof. Dr. Johan Axel, Prof., Dir. Zool. Mus., Sec. Geog. Soc.
of Finland, Helsingfors. Zool., Birds, Insects.
Palmén, K. E., Magister, Polytechn. Inst., Helsingfors. Technol.

Palmén, K. E., Magister, Polytechn. Inst., Helsingfors. Technol. Petrelius, A., Ph. Mag., Lehrer, Polytech. Inst., Helsingfors. Ast.,

Geodesy. Pipping, Hugo, Dr. Phil., Helsingfors. Philol., Phonetics.\* Poppius, Alfred, Ph.D., Abo. Ent: Lepid.\* Qvist, E., Director Polytechn. Inst., Helsingfors. Tech., Chem. Ramsay, Dr. W., Doc. Univ., Helsingfors. Min., Geol., Crystals. Renvall, T., Cand. Phil., Abo. Orn., Ool., Moll.\* Reuter, Dr. Enzio, Helsingfors. Zool., Ent., esp. Lepid. C. Ex.\*

Reuter, Jonatan, Ingénieur, Redacteur of "Teknikern," Helsingfors. Engineering, Technol.\*

Reuter, Odo Morannal, Prof. d. Zool. a.d. Univ., Grâsviksgatan 6, Hel-

singfors. Hemipt. C. Ex.
Rindell, Dr. Arthur, Prof. Chem. Landw. Inst., Mustiala. Inorg. Chem.
C. minerals of Tammela.
Roos, J., Kand. Phil., Fredrikshamn. Bot., Zool.
Rosberg, J. E., Magister Phil., Fredrikshamn. Phys. Geog., Glac. Geol.\*
Sælan, Dr. Th., Prof., Helsingfors. Eot.

Sahlberg, Dr. John, e. o. Prof., Mikeslegatan 22, Helsingfors. Ent., European Lepid. and Hemipt., Coleopt. C. Ex.\*

Saltzman, Fr., Prof. Dr., Generaldirector des Medicinalwerkes, Helsingfors. Surgery.

Sandman, J. A., Fil. kand., Adjoint des Fischerei-Inspectors, Helsingfors. Zon. Com. Col. Lett. C. Fr.\*

fors. Zool., Orn., Ool., Ichth. C. Ex.\*
Schulman, Prof. Hj., Tammerfors. Zool., Geog. Dist., Orn., Morphol.,
Vert. Anat., Mammals, Neuro-Myol. C. Ex.\*
Schulten, Dr. August, Docent, Helsingfors. Inorg. Chem.\*

Schwindt, Dr. P. Theodor, Helsingfors. Finnsh Ethnogr. Sederholm, J. J., Ph.D., Dir. Geol. Survey of Finland, Helsingfors.

Sederholin, J. J., Fil.D., Diff. Geol. Survey of Finance, Archæan and Glacial Geol.\*
Setälä, Dr. E. N., Prof. Univ., Helsingfors. Orig. Languages (Finland).
Solitander, Carl Probus, Intendent of Mines, Helsingfors. Geol., Meteo.\*
Spoof, A. R., Dr. Med. and Chir., Abo, Finland. Gen. Biol., Vert., Anat.,

and Emb., Public Health; Acari, Worms.

Spoof, Wald, Secret, refer., Abo. Birds and Fishes.
Stenroos, Karl E., Cand. Phil., Helsingfors, Abrahamsgatan 9. Crust.,

Orn., Coleopt. C.\*
Stjernvall, Hugo J., Fil.-kand, Gcol. and Bot., Borga. Phæn. Plants
Ferns, Geol., Min., Photog. C. Ex.\*

Strömborg, J. E., Lector, Bonga. Bot.
Sucksdorff, W. J., Dr. Med., E. o. Prof., Univ., Helsingfors. Hygiene.
Sundman, Gösta Consul. Birds' Eggs and Fishes of Finland.
Sundman, A., Dr. Med., Viborg. Orn.
Sundwik, E., Dr. Prof., Helsingfors. Physiological Chem., Pharmacol.
Thoskeff Antur Convolt Helsingfors.

Thesleff, Artur, Gasverk, Helsingfors. Bot: Fungi. C. Ex.\*
Tigerstedt, Axel Fredrik, M. E., Industristyrelsen, Helsingfors.
Geol., Min., Metall., Lithol. C. Rocks and Minerals. Ex.\*
Unonius, K., Lector, Helsingfors. Bot.

Wainio, Dr. Edw. A., Docent de botanique, Helsingfors. Phan. du Bresil.

Waino, Dr. Edw. A., Docent de botanique, Reisingtors. Than an Dreising Lichens. C.
Lichens. C.
Warén, E., Dr. Med., Helsingfors. Zool.
Westerlund, Aulis, Cand., Helsingfors, Mikaclsgatan 8. Ent., Hymenopt.
Westermarck, Dr. Edward, Lecturer (Docent) on Sociol., Univ., Andrégatan 7, Helsingfors. Sociol., Ethnol.\*
Wiik, Prof. Fred. Joh., Helsingfors. Crystall., Min., Geol.
Wickström, D. A., Fil. Mag., Assist. Univ., Helsingfors. Zool.
Zidbäck, Herman, Magister, Uleåborg. Bot., Orn.\*

### FRANCE.

Abbadie, Antoine d', Mem. Acad. Sci., 120 rue du Bac, Paris.
Navigation, Geodesy, Ast., Philol., Psychol.\*
Abeille de Perrin, Elzéar, rue de la Bibliothèque 24, Marseille.

earctique Ent., Hymenopt., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C.

Allard, Gaston, La Maulevrie, route des Ponts-de-Cé, near Angers. Coleopt., Bot.

Alluaud, Charles, ave. Foucaud 16, Limoges. Coleopt., of Europe and

Africa in ex. for Colcopt of other countries.

Ancey, Felix, St. Loup 138, près Marseille. Coleopt., Hymenopt., and Mollusks of the world. Lepid. C. Ex. Offers an immense number of duplicates. Wishes to get spec. from N. and S. America, and generally those from any country but Europe. Correspondence solicited.\*

Andonard, Ambr., Prof., École de Médecine, Dir. de la Station agrono-

mique, Nantes. Bot., Chem.\*

André, Edouard, 30 rue Chaptal, Paris. Plants of South America.

André, Ernest, rue des Promenades 17, Gray (Haute-Saône). Ent:

Hemipt. and Hymenopt. of the world. Ex. Hymenopt. of Europe for foreign.\*

André, S., Chambéry, Savoie. Phæn. Bot.

Arbost, Joseph, Pharmacien de lère classe, membre de la Soc. bot. de France, Thiers, Puy-de-Dome. Bot: Phæn. Plants, Herbar. Ex. Argod-Vallon, Albert, Crest (Dröme). Herpetol., Ent., Coleopt: plus spécialement Longicornes et insectes cavernicoles du globe. Ex. Arnaud, Prof. de Chimie, ruc de Buffon 63, Paris. Org. Chem. Arnaud, Francois, Barcelonnette (Basses-Alpes). Strat. Geol., Arch. C.

Arnaud, H., Avocat, rue Froide, 23, Angoulême (Charente). \_ Géol.

Artutel, Joseph, 20 boulevard Banon, Marseille. Moll. C. Ex. Arvet-Touvet, Gières (Isère). Bot: Hieracia. Aubert, Edonard, Admin. du Mus. d'Hist. Nat., Prés. du Tribunal de

Paix, rue Franklin 75, Angers. Lepid. C.\* Aubert, Ephrem, Prof. au lycée Charlemagne, 62, rue Claude-Bernard,

Paris. Physiol., Veg.\* Aubert, Ingénieur des mines, Valenciennes. Geol., Palæo.

Auclair, André, rue de la Fraternité, Moulins (Allier). Con. Audollent, Paul, rue Mornay 5, Paris. Gen. Ent., Anat., Physiol. Ault-Dumesnil, (d'), r. de l'Eauette, 1, Abbeville (Somme). Géol. Auvert, Georges, Saint-Denis-cn-val, près Orléans (Loiret). Coleopt.

Bacle, Louis, Ingénieur des Mines, ancien élève de l'Ecole Polytechnique,

57, rue de Chateaudun, Paris. Phys.\* Baer, Gustave Adolphe, Trévise 13, Paris. Coleopt.

Balbiani, E. G., Paris. Emb., Insects, Infusoria.
Balguerie, Alfred, cours du Jardin public 84, Bordeaux. Palæo, Con.,

Petrog., Min., Geol. Barbiche, L'Abbé, Curé to Pontoy (Lorraine). Bot., Con. C. Barbier, Ch., rue de la Goutte d'Or 61, Montmartre, Paris. Coleopt.

Bardin (l'abbé), rue Branlt, 21, Angers (Maine-et-Loire). Géol.
Baret, Charles, Ex-Vice Pres. de la Soc. Française de Min., Place Delorme
2, Nantes (Loire Inferieure). C.\*

Barct, Louis, place Delorme 2, Nantes. Ent., Hemipt.
Barla, Jean Baptiste, place Garibaldi 6, Nice. Bot., Mycology, Ichth.
G. Ex.

Baron, Gustave, ruc de Maurepas, 4, Versailles. Géol. Barrois, Dr. Charles, Prof. à la Faculté des Sciences, Lille.

Barrois, Prof. Jules, au Cap Brun à Tonlon. Emb.\* Barrois, Dr. Théodore, 220 rue Solferino, Lille. Crust., Echinodermes, Galles des plants.

Barthe, Prof. Eigène, Director "Miscellanea Entomologica," Ancienne route du Teil, Montélimar, Drôme. Ent., Coleopt. C. Ex.

Barthélemy, Francois, 22 rue du Faubourg des Trois Maisons, Nancy.

Anth., Arch., Ethnog.\*

Bastit, Eugène, Dr. ès sciences, Chateau-Thierry (Aisne). Bot.

Baume Pluvinel, A. de la, rue de la Baume, Paris. *Phótog.*, Ast.\*
Bavay, Prof. à l'École de Médicine Navale, Grand rue 45, Brest. *Conch*ology, Herpetol., Helminthol. C. Ex.

Beaugay, Ingénieur des mincs, Bordeaux. Geol., Petrog.
Beauregard, Dr. Henri, Rue Guy Lussac 56, Paris. Ent., esp. Cantharides.
Beauvisage, Georges, Dr. en Méd., Prof. agrégé, chargé du cours de
Bot. à la Faculté de méd. de Lyon, rue Bouchardy 15, Lyon. Med.

Bot. a la Faculte de Bret. de Byon, the Bottehardy 13, Lyon. Met. Bot., Phæn. Plants. C. Herbier et Jardin bot. Bedel, Louis, rue de l'Odéon 20, Paris. Coleopt. Bellerade, Bial de, place Henri IV., Bordeaux. Coleopt., Ent. C. Ex. Belon, Prof. Paul, place St. Michel 4, Lyon (Rhone). Coleopt. C. Lathwildide and Longicoux of the clobe. ridiidæ and Longicorns of the globe. Ex.

Beltremieux, Edouard, rue des Jardins, 42, Rochelle (Charente-Inférieure).

Geol.

Berchon, Dr. Ernest, 96 Court Jardin public, Bordeaux. Zool., Geol., Anth., Arch., Med. C. Ex.
Bergeron, J., Dr. ès sciences, Boulcvard Haussmann, 157, Paris. Geol., Palæo.\*

Bernard, Felix, Asst. au Mns., 22, rue de l'Odéon, Paris. Geol.

Bernard de Montessus, Ferdinand, Dr., Prés. Soc. des Sciences Naturelles de Saône-et-Loirc, et de la Société française d'Orn, à Lyon, Chevade Saône-et-Loire, et de la Société francaise d'Orn, à Lyon, Chevalier de la légion d'honneur, Chalon-sur-Saône (Saône-et-Loire); Musée d'Orn. d'Europe, etc., à Châlon. Palæo., Geol., Min., Orn., Ent., Lepid., Coleopt. C. Ex.

Berthelin, Georges, rue de Vaugirard, 31, Paris. Invert. Palæo., Moll. (Continental, Rec. and Fossil), Protozoa (Foraminifera, Rec. and Fossil). C. Ex.\*

Berthoumieu, Victor, Bayet, St. Pourçain (Allier). Ent. Hymenopt., Ichneumonidæ). C. Ex.

Bertot, M., 16 rue des Chanoines, Bayeux, Calvados. Phæn. and Crypt. Plants. Algæ. C. Ex.

Bertrand, Dr. E. J. H., Consenvoye, Mense. Ent., Coleopt.

Bertrand, Léon. Agrégé de l'Univ., rue Berthollet, 4, Paris. Géol.

Bertrand, Léon, Agrégé de l'Univ., rue Berthollet, 4, Paris. Géol.

Bertrand, Marcel, Ingénicur en chef des mines, rue de Rennes, 101, Paris. Geol.

Besnard, rue des Ursulines 16, Le Mans (Sarthe). Orn.

Bétencourt, Alfred, 58 rue d'Outreau à Boulogne-sur-mer, Dir. du Laboratoire du Portel (Pas-de-Calais). Hydraires, Bryozoares.

Bezançon, Alphonse, Docteur en médicine, rue de Tournon, 29, Paris. Geol.

Bigot, Chargé du cours de Géol. à la Faculté des Sciences de Caen (Calvados). Géol.

Bigot, J. M. F., rue Cambon 27, Paris. Ent., Dipt. Bigourdan, G., Paris. Ast. Billaud, à Paris, rue Notre Dame de Lusette 39. Orn.

Billiet, P., rue de la Poudrière 1, Clermont Ferrand. Bot.
Billiet, P., rue de la Poudrière 1, Clermont Ferrand. Bot.
Binet, Alfred, Dir-adjoint du lab. de Psychol. de la Sorbonne, Paris, 29
rue Madame, Paris. Gen. Biol., Invert. Anat., Anth., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt.

Binot, Jean, 22 rue Cassette, Paris. Histol., Coleopt., Hemipt. C.\* Blane, Edouard, 122, rue de Grenelle, Paris. Phan. and Crypt. Bot., Phys. Geol., Meteo., Zool., Gen. Biol., Geog. Dist., Morphol., Anat., Arch., Eth., Ethnog., Ent., Coleopt. C. Blanchard, Emile, Prof. d'Ent. Mus. d'hist. nat., 34, rue de l'Université,

Paris.\*

Blanchard, Dr. Raphaël, Prof. agrégé à la Faculté de médicine, Sec. géneral de la Soc. Zool. de France, rue du Luxembourg 32, Paris. Comp. Anat., Animal and veg. parasites of men and animals. Prepares a monograph of Leeches, and wishes to receive samples marine, terrestrial or of soft water from every part of the world.\*

Blavy, Alfred, Nationale 21, Montpellier. Ent.
Bleicher, Marie Gustave, 9, Cours Leopold, Nancy. Anth., Arch., Eth-

nog., Strat. Geol., Invert. Palæo., Lithol.

Bleuse, Léon, 125 Avenue du Mail d'Onges, Rennes. Coleopt. of Europe and vicinity, and lepid. of dept. of Ille and Vilaine. Offre des livres d'histoire naturelle.\*

Bocourt, F., Mus. d'Hist. Nat., Paris. Reptiles, Fishes. Bois, Désiré, Assistant de la Chaire de culture au Muséum d'hist. nat., rue Cuvier 57, Paris. Plantes utiles, Phan. Plants, Hort.\*

Boissellier, Rochefort-sur Mer (Charente-Inférieure). Geol.

Bonaparte, le prince Roland, Cours-la-Reine, 22, Paris. Geol Bonhoure, Alph., Boulevard Haussmann 82, Paris. Coleopt.

Bonjour, Samuel, Passage St. Yves, No. 23, à Nantes (Loire Inf.).

Bonnet, Dr. Edmond, préparateur de bot. au Mus. d'hist. nat., Paris. Bot. Bonnier, Gaston, Prof. à la Sorbonne, 15, rue de l'Estrapade, Paris, et Dir. du Laboratoire de Biologie végétale de Fontainebleau (Seine et Marne). Bot.\*

Bonnier, Jules, 75 rue Madame, Paris, Sous-dir. du laborat. de Zool. de Wimereux, Pas-de-Calais. Crustacés Décapodes, Schizopodes, Cu-

macés, Isopodes, et Amphipodes. Ex.

Bontan, Dr. Louis, Maître de conférence à la Fac. Sci., Lille. Moll. Bony de Lavergne, Raymond de, 25 rue de St. Petersburg, Paris. Palæo.

Bornet, Ed., Membre de l'Institut, Quai de la Tournelle 27, Paris. Bot., Alge.\*

Bouat, Gustave, Secrétaire de l'Académie d'Aix-en-Provence. Bot.\* Bouché, l'Abbé Jean, Curé de Viziele (Isère). Coleopt.

Boudier, Famil, 22 Rue de Gretry, Montmorency (Seine-et-Oise). Bot: Fungi, Ent., Coleopt.

Boulay, l'Abbé, D.Se., Prof. à l'Université Catholique, Boulevard Vauban 127, Lille (Nord). Bot. C. Ex.

Boule, M., Agrégé de l'Université, Docteur ès Sciences, Mus. d'Histoire

naturelle, rue Lacépède 17, Paris. Geol., Palæo., Vertebrates.\* Boullet, Eugène, Corbie (Somme). Lepid. du globe. C. Ex.

Bourgeat, (l'abbé), Prof. à l'Inst. catholique de Lille (Nord). Geol. Bourgeois, Léon, 1 rue du Cardinal Lemoine, Paris. Min., Crystal., Lithol., Inorg. Chem.

Bourru, Dr. H., rue Victor Hugo, Rochefort-sur-mer, Charente-Inférieure.

Nat. Sci., Clinique Medicale.

Boury, Eugène de, Théméricourt par Vigny (Seine et Oise). Eocene Fossils, Mathildia, Scalaria, Acirsa, recent and fossil. Living shells from Gulf of Gascoyne and fossils of the basin of Paris for ex. for Scalaria, books on Scalaria, etc. Scalaria and eocene fossils of Alabama, U.S.A.

Boutroux, Léon, Prof. à la Faculté des Sciences de Besançon. Bacterial

Fermentations.

Bouvier, E. L., Prof. agrégé à l'Ecole supérieure de pharmacie de Paris, 39 rue Blaude Bernard, Paris. Zool., Anat., Crust., Moll.

Bouzereau, Malifert, à Meursault Côté d'Or. Lepid.

Brabant, E., Château de l'Alouette, Escandœuvres, près Cambrai. Lepid.

Branly, Edouard, D. S., M.D., Prof. de Physique à l'Inst. Catholique de

Paris, ave. de Tourville 21. Phys.\*

Bran de Saint-Pol Lias, M. F. Xavier, J. J. H., Explorateur chargé par le Gouvernement Français de Missions Scientifiques en Malaisie et en Indo-Chine, rue de Passy 47, Paris. Ethnog., Anth., Zool.,

Bréon, Eugène, Semur (Côte-d'Or). Geol.

Breton, Chef de section en retraite de la Compagnie du chemin de fer de l'Est, boulevard Victor Hugo, 3, Bar-sur-Aube (Aube). Geol.

Briard, Pierre, Troyes, Rue Grosley 7 bis. Bot: Phan. and Crypt. Plants.

Brocard, M. E., rue de la Lue 9, Besançon, Doubs. Prés. de la Soc. des Ornithologistes de Frandre Comté. Orn. C. Ex.

Brongniart, Charles, du Muséum d'Histoire Naturelle, rue Linné 9, Paris. Zool., Palæo., Bot. C. Fossils of the Carboniferous, Insects, and Fishes. Ex.\*

Bruant, Georges, boulevard St. Cyprien, Poitiers. Bot., Hort.\*

Brun-Buisson, Francisque, Dr. Med., Voiron (Isère). Bot., Fungi., Hort., Photog.

Bruycker, Pol de, M. E., Geologist, 26 ave. Marceau, Paris. Geol., Min., Lithol., Metall., Physics, Geog. Dist., Anth., Eth., Ethnog. Bureau, Edouard, Prof. de Bot. au Mus. d'hist. nat., Paris. Bot.

Busquet, Dir. des houillères, La Machine, near Decize (Nièvre). Veg. Palæo.\*

Buysson, Henri du, Château du Vernet, Broût-Vernet (Allier). Bot., Ent., Coleopt. (spec. Elateridæ), Orthopt., Hymenopt., Dipt., Hemipt. C. Ex. French specimens for American.

Buysson, Robert du, Château du Vernet, Broût-Vernet (Allier). Bot., Ent., Hymenopt. (special, Chrysididæ of the world), Crypt. C. Ex. French specimens for Amer.

Cadiat, L. O., Prof. agrégé à la Fac. de Médecin, Paris. Emb., Vert.

Caignait de Sauley, Henri, Coulommiers. Paleo. C. Calais, Jean, à la Librairie B. Visconte et Cie, 2 rue du Cours, Nice (Alpes-Maritimes). Ichthyol. Callot, Louis, Marseille, 31 rue des Trois Mages. Bot.

Cambournac, Simon, boulevard de la Gare 14, Narbonne, Aude. Coleopt.
Camus, E. G., Pharmacien de lère Classe, Lauréat de l'Inst. de France
(Académie des Sciences), Sec. de la Société Bot. de France, 58
Boulevard St. Marcel, Paris.\*

Canu, Dr. Engène, Chef des travaux zool. à la Station Agricole de Bou-

logne-sur-Mer. Fishery Industries, Marine Fish Culture, Emb. of the Fishes, Copépodes. C. Ex.\*

Caralp, Maître de conférences à la Faculté des Sciences, 22 allée St. Etienne, Toulouse (Haute-Garonne). Geol.

Caraven Cachin, Alfred, Sée. de la Commission des Antiquités du Tarn,

Salvagnac (Tarn). Geol.

Cardot, Jules, Stenay (Meuse). Bot. C. Ex. Musci of Europe for those of the world, and especially of America. Determinations.\*

Carez, Léon, Docteur ès-sciences, avenue Hoche, 36, à Paris. Strat. Geol.\*

Carnot, Adolphe, Prof a l'Ecole Supérieure des Mines, 60 Boulevard St.-Michel, Paris. Geol., Min., Chem., Metall.\*

Carret, l'Abbé Autoine, Aumônier, Chartreux, Lyon. Ent., Coleopt. C.

- Carrière, Attaché à la Carte géologique d'Algéric (Oran), 2, rue des Chapelins, à Nîmes (Gard). Geol.
- Castanier, Justin, Sorede, Pyrénées Orientales. Bot.,
  Caullery, Maurice, Agregé-Préparateur de Zool., École Normale Supérieure, Paris. Zool., Gen. Biol., Geog. Dist., Morphol., Emb.,
  Histol. Iunicates.\*
  Caumont,—, Instituteur, rue Pingré, Amiens (Somme). Bot.
  Cayeux, Préparateur à l'École des Mines, 60, boulevard Saint-Michel, &
- Paris. Geol.
- Cazalis de Fondouce, Pau!, Ing., 18, rue des Etudes, Montpellier. Anth., Arch., Eth., Ethnog. C.\*
- Caziot, Eugene, Capitaine d'artillerie, Avignon. Invert. Palæo., Con., Malacol., Moll. (L. and Sea Shells). C. Ex.\*
- Certes, A., 7 rue des Grands Augustins, Paris. Infusoria, Oyster Parasites.
- Chabrić, Dr. C., Chef du Lab. Physiol. Chem., Hôp. Necker, Paris-Chemist.\*
- Chadenat, Ch., 17 quai des Grands Augustins, Paris. Librairie Americaine, Livres, Gravures, Cartes, etc. Public " Le Bibliophile Américain." Catalogue à prix marqués.\*
- Chalande, Henri, rue des Couteliers 51, Foulouse, Haute Garonne. Bot. specimens from the Pyrenean region to exchange for land shells of any country.\*
- Chaper, Maurice, Ingénieur, Ancien Prés. de la Soc. Zool. de France, Membre des Soc. Géol. et Min., rue St. Guillaume 31, Paris. Mollusks, Invert. Palao. C. fossil invert. and living mollusks. Ex.\*
- Charlois, A., Nice. Ast.
  Charlois, A., Nice. Ast.
  Chain, Joannes, Prof. Dr., boulevard St. Germain 128, Paris. Trichina,
  Insects, Hist.

  Insects, Hist.

  Sciences, 82 rue Monge, Paris. Geol. Palaco.\*
- Cheux, Albert, rue Delaage 47, Angers. Meteo., Ast., Min., Ent., Lepid.,
- Geol., Palæo. C. Ex.
  Chevallicr, l'Abbé L., Précigne (Sarthe). Bot.
  Chevillou, Capitaine, Officier d'Acad., Blois. Ent.
- Chrétien, Pierre, Rue de l'Etoile 32, Paris. Lepid. Chudeau, R., Prof. à la Faculté des Sei., Besançon (Doubs). Geol., Min.\* Claudon, Edouard, Ingénicur, boulevard d'Enfer 6, Paris. Chem., Min.,
- Microbiologie. Clément, Camille, 23 rue Roderie, Valence (Drôme). Photog., Physics. Cloez (Charles), Répétiteur à l'Ecole polytechnique, rue Guy de la Brosse,
- 9, à Paris. Geol.
- Clos, Dr. Dominique, Faculté des Sciences de Toulouse. Bot. Cogit, E. et Cie, 49 Boulevard St. Michel, Paris. Microg., Bacteriol., Depôt des microscopes, Lcitz.\*
- Collignon, Dr. Réné, 25 de Ligne, Cherbourg. Anth.
- Collot, I., Professeur de Géologie à la Faculté des Sciences, rue Saint-Philibert, 51, à Dijon (Côtc-d'Or).
- Colomb, Georges, rue Claude Bernard 33. Paris. Bot.
- Constant, A., Villa Niobé, Golfe-Juan (Alpes-Maritimes). European Le-
- pid., spec. Microlepid., Hort. C. Ex.\*
  Contejean, Charles L., Prof. hon. à Montbéliard (Doubs).\*
  Copineau, Charles, Membre de la Soc. Bot. de France, Juge au Tribunal
- civil, Doullens (Somme). Phon. Bot. C. Ex. (general).\*
  Coppet, Louis C. de, Ph. D., Villa Irène, rue Magnan, Nice. Crystall., Chem., Phys.\*
- Cordier, Henri, Prof. à l'École Spéciale des Langues Orientales Vivantes, et à l'Ecole Libre des Sciences Politiques, 3 Place Vintimille, Paris.

Corme, Maxime, Prof. au Mus. d'hist. nat., 27 rue Cuvier, Paris. Bot. Cosserat, E., Toulouse. Ast.

Cossigny, Ch., de Courcelles, par Clérey (Aube). Geol.

Cossmann (Maurice), Ingénieur en chef des services techniques au chemin de fer du Nord, rue de Maubeuge, 95, à Paris. Invert. Palæo.,

Moll. C. Ex.\*
Cosson, E. Saint-Charles, Membre Acad. Sc., rue La Boëtie 7, Paris.

Costantin, Julien, 57 rue Clande Bernard, Paris. Bot., Fungi. C. Ex.\* Cotteau, Edmond, Lauréat de l'Inst. de France, 4 rue Sedaine, Paris. Geog., Voyages.\*

Cotteau, Gustave, Membre correspondant de l'Inst. de France, Auxerre (Yonne). Palæo., esp. Echinoderms. C. living and fossil echino-

derms for sale or exchange.\*

Courchet, L., Prof. de Bot. à l'Univ. (Instit. de Bot.), Montpellier. Veg. Anat.\*

Coutagne, Georges, Rousset (Bouches du Rhone). Bot., Hort. (Bulbous and tuberous plants), Mollusks (L. and F. W. shells). C. Ex. Couvreur, Edmond, Chef. des trav. pratiques à la faculté des sciences de

Lyon. Physiol. comp., Anat. comp. Crettè de Palluel, Albert, au Châtean de la Vallée (Cotes du Nord). Orn.

Crié, Prof. à la Faculté des Sciences, Rennes. Bot., Veg. Palæo. Croissandeau, Jules, rue du Bourdon blanc 15, Orléans. Coleopt., Gallorhénans et Corses, Pselaphidæ, Scydmænidæ, Pausidæ, Clavigeridæ du globe.

Croix, John Errington de la, F.L.S., F.G.S., etc., etc., Explorer, 49 Ave. Bosquet, Paris. Geol., Min., Mining Engineering, Zool., Eth., Ethnog., Philol.

Croizier, Le Marquis de, 10 boulevard de la Saussaye, Parc-de-Neuilly, Paris. Bibliog., Geog. Dist., Arch., Ethnog., Philol.\*

Crosse, Hippolyte, Directeur du Journal de Conchyliologie, rue Tronchet, 25, à Paris.

Crozel, Georges, place de l'Hotel de Ville, Vienne (Isère). Geol., Palæo., Con., Crustacea, Anat., Gynæcol. C. Ex. L., F. W. and Marine Shells, Fossils and Mins. of France to exchange. Correspondence solicited.\*

Cuénot, Lucien, Chargé de cours de Zool. à la Faculté des Sciences, Nancy (Meurthe et Moselle). Zool., Gen. Biol., Morphol., Emb., Invert. Anat., Histol., Radiates.\*

Curtel, Prof. au lycée de Dijon, Dijon. Bot.

D'Achon,-, Chateau de Montevran (Loir et Cher). Coleopt. de France. Daffry de la Monnoye, Adalbert, rue du Cherche Midi 11, Paris. Ent., Coleopt., Dipt., et Aviculture.\*

Dagincourt (Em.), Docteur en médecine, rue de Tournon, 15, à Paris.

Dagrève, Antoine, 20 boulevard Diderot, Paris. Coleopt.

Daguillon, Prof. au lycée Janson-de-Sailly, 6, rue Le Kain, Paris. Bot.\* D'Alamonville, C. Con., au Château de Manonville (Meurthe et Moselle).

D'Alzac, Jean Joseph Ulric, Marquis de la Donze, Chateau de Borie-Petit, par Périgueux (Dordogne). Bot.

Damour, A., rue Vignon, 10, à Paris. Geol.

Dangeard, P. A., Prof. de Bot., à la Faculté des Sciences, Directeur du Botaniste, 16 rue des Ilalles, Poitiers. Bot: Crypt. Plants, Fungi, Alge, Mic., Histol. C. Preparations microscopiques. Ex.

Daniel, Lucien, Dr. ès Sciences, à Chateau Gontier (Mayenne). Bot.

Dareste, Dr. Camille, rue de Fleurus, Paris. Teratology, Emb.

Daubrée, Auguste, Inspecteur général des mines, boulevard Saint-Germain, 254, à Paris. Geol.

D'Aubusson, Meagaud, à Paris, r. Poussin 36. Orn. Dautzenberg, Philippe, Ancien Pres't de la Soc. Zool. de France, 213 rue de l'Univ., Paris. Mollusks C. Ex.\* Daveau, J., Jardinier en chef du Jardin Bot. de Montpellier. Mediterr.

Flora.\*

Davy, L., Ingénieur chef de service des forges de Trignac, à Chateaubriant (Loire-Inférieure). Geol.
 DeBedriaga, Dr. Jacques, Nice, Bd. de l'Impératrice 55. Herpetol. C.

Ex.

Debierre, Chas., Prof. agrégé à la Fac. de Med., Lille (Nord). Mammals. De Cazanove, Joseph, Avize, Marne. Ferns, Photog., Zool., Orn., Ool. C. of Birds. Ex.

Decharme, Doct. ès Sc., Chevalier de la Legion d'honneur, Prof. de l'Univ. (en retraite), Officier de l'Instruction Publique, rue St. Louis 8, Amiens. Phys.\*

Decene-Racouchot, Alfred, Antoine (Luzy), Nièvre. Coleopt.
Degrange-Touzin, 13, rue Casteja, à Bordeaux (Gironde). Geol.
Dehérain, Pierre P., Prof. Mus. d'Hist. Nat., 1 rue d'Argenson, Paris. Agric. Chem.

Delaby, Edmond, rue Amiral Courbet 10, Amiens. Coleopt.

Delachanal, Bénédict, Chef. des travaux Chimiques à l'Ecole Centrale des Arts et Manufactures, 66 rue du Cardinal Lemoine, Paris. Chem., Physics, Areometrie.

Delacroix, Sous-Directeur du laboratoire de Pathologie végétale à l'Institut national agronomique, 18 rue Claude Bernard, Paris. Crypto-

Delafond, Frédéric, Ingénieur en chef des mines, à Châlon-sur-Saône

(Saône-et-Loire). Geol. Delage, Yves, Doct. en méd., Prof. Anat., Zool., et Physiol. comp. à la Sorbonne, Paris, av. des Gobelins 44. Palæo., Phys. Geol., Psycho-Physiol., Mic., Zool., Gen. Biol., Geog. Dist., Emb., Anat., Vert., Invert.\*

Delagrange, C. J., Besançon, 57 rue Bersot. Coleopt., Lepid. du globe. Delante, Albert, Pharmacien, Authon-du-Perche (Eure-et-Loire). Bot., Phæn. Plants, Mosses, Ent., Coleopt. C. Ex. Delauney, Felix J., Ministère de la Marine, Paris. Phys. Geol., Meteo.,

Ast., Coleopt.

Demaison, Louis, Archiviste Paléographe, rue Cérès 21, Reims. Ent., Lepid. C. Mammals, Birds and Rept.

Demarçay, Eugène, 74 rue de Courcelles, Paris. Chem., Physics. Denans, Albert, Rue Chateauredon 25, Marseille. Mollusks, Postage Stamps. C. Ex. shells of Mauritius, Mediterranean, New Caledonia for species of the genera Cyprea, Marginella, Mitra, Cochlo-

Deniker, Dr. Joseph, Bibliothécaire du Museum d'Hist. Nat., 2 rue Buffon, Paris. Bibliog., Anth., Arch., Eth., Ethnog., Mammals. Depéret, Doct. ès Sciences, Chargé de cours à la Faculté des Sciences,

Lyon. Geol., Palæo.

Depping, Guillaume, Conservateur-adjoint à la Bibliothèque Ste. Geneviève, 14 rue Milton, Paris. Bibliog., Geog. Dist \*

Dereims, Préparateur au Laboratoire de géologie de la Sorbonne, à Paris.

Desbordes, Henri, rue de Rennes 121, Paris. Coleopt.

Desbrochers des Loges, Jules, Entomologiste, Tours (Indre et Loire), 23 rue de Boisdenier. Curculionides et Brenthides du globe. Buy, sell and exchange.

Deschange, Emil, Entomologiste, Longuyon (M. Moselle). Lepid., Co-

coons. Buy, sell or exchange.

Des Cloizcaux, Prof. Min. au Muséum d'Histoire Naturelle, rue Monsieur, 13, à Paris. Geol.

Deslandres, M., Paris. Ast. Deussault, Philibert, Dessinateur Géographe, rue de la Verrerie 67 et 71,

Paris. Geog.\*
Devaux, Henri, Maître de Conférences, à Bordeaux (Gironde).

Physiol.

Devéria, Jean Gabriel, boulevard Pereire, 15, Paris. Arch., Eth., Ethnog. Deyrolle, Gabriel, Naturalist de la Maison, "Les Fils d'Emille Deyrolle."

46 rue du Bac, Paris. Zool., Geol., Bot., Anat., Mic. C. of Colcoptera, Conchology, Lepidoptera, Mammals, Birds, Reptiles, Fishes, Osteology. Fossils, Min., Rocks, Optique Mineralogique.\*

Ditte, Alfred, Prof, Chem. a la Faculté des Sci., de Paris, 9 rue du Val de

Grace, Paris. Min., Chem., Metall., Physics.
Dollé, Maurice, rue Chenizelles 2, Laon. Coleopt.
Dollfus, Adrien, rue Pierre-Charron 35, Paris. Crustacea, esp. Isopoda.\*

Dollfus, Dr. Gustave, 45 rue de Chabrol, Paris.

Donckier, H., place Denfert-Rochereau 20, Paris. Ent., Livres d'Ent., Coleopt., Lepid. Vente et achat.\*

Dorveaux, Dr., Bibliothécaire de l'Ecole de Pharm., 4 ave. de l'Observatoire, Paris. Bibliog.\*

Douliot, Henry, Préparateur de Bot. (Anat.), Mus. d'Hist. Nat., 61 rue de Buffon, Paris. Bot.

Doumerc, Jean, Ingénieur civil des Mines, 25, rue Corail, Montauban

(Tarn-et-Garonne). Geol. Doumerc, Paul, Ingénieur civil, rue Alsace-Lorraine, 36, Toulouse (Haute

Garonne). Geol. Douvillé, Henri, Ingénieur en Chcf des Mines, Prof. de Palæo., l'École des Mines, 207, boulevard St.-Germain, Paris. Palco., Geol.\*

Dru, Léon, Ingénieur civil, rue Pierre-Charron, 60, Paris. Geol. Dubois, Dr. Raphaël, Prof. de physiol. générale et comparée à la Faculté

des Sciences de Lyon; Membre de la Soc. de Biol., et de l'Acad. phys. Méd. de Florence; Faculté des Sciences, Lyon. Gen., Biol \*

Dufour, Léon, Docteur ès sciences, Dir. adjoint du Lab. de Biol. veg. de Fontainebleau, Avon (Seine et Marne) à la Sorbonne, Paris. Bot.\* Dupont, A., Château d'Alménèches par Alménèches, Ornc. Ent., esp. Coleopt.

Durand, Lieutenant-Colonel d'infanterie de l'Armée territoriale, avenue

Marceau, 45, Paris. Geol.

Duruy, Jean Victor, Membre de l'Inst. de France (Acad. Francaise, Acad. des Sci. Morales et Politiques; Membre libre de l'Acad. des Inscriptions et Belles-Lettres), Auteur de Histoire des Romains, Histoire des Grecs, Histoire de France, etc., etc., 5 rue de Médicis, Paris.

Dutilleul, Georges, Prep. Fac. Sci., Lille. Vermes.

Duval, Clotaire, Sec. Général de la Soc. d'Hort. de Melun et Fontainebleau, Fontainebleau (Seine-et-Marne). Bot.\* Edgecomb, Daniel W., 29 rue Boissiere, Paris. Mic., Ast.

Estourbeillon (Comte Régis de L'), 24 rue du Drezen, à Vannes. Arch. Euthyme, Le Frère, Inst. des Petits-Frères de Marie, St. Genis-Laval

près Lyon. Coleopt., Min., Geol., Arch., Con. Exibard, J., cours Saleya 15, Nice, Préparateur Naturaliste, Médaille d'Argent à l'Exposition Universelle, Paris, 1889. Ichthyol. Faune du midi de la France, Oiseaux, poissons montés, crustacés, mollusques, cephalopodes, coquilles, reptiles, etc. Achat et vente.

Fabre, G., Inspecteur des Fórêts, 26 rue Ménard, Nîmes. Bot., Geol. Fabre-Domergue, Dr. ès Sci., 124 boulevard Montparnasse, Paris. Mic., Protozoa.

Fages, Réceveur de l'Enregistrement, Grenadi, H. Garonne. Ex.

Fairmaire, Léon, rue du Dragon 21, Paris. Coleopt., Hymenopt., Hemipt.

of Europe. C. Ex.

Fallot, Docteur en Méd., Dr. ès Seiences Nat., Prof. à la Faculté des sciences, Dir. du Mus. d'Hist. Nat., rue Turenne 56, Bordeaux (Gironde). Geol. Falsan, Albert. Saint-Cyr au Mont-d'Or (Rhône). Geol.

Farge, Dr. en Méd., Angers (Maine-et-Loire). Geol.
Faucennet, Mary-Louise, à la Frette, prés Autun. Coleopt., spec. Longicornes of the World. C.
Faupin, F., Officier d'Acad., Prof. des Sciences physiques et naturelles à

l'école normale primaire, Blois. Gen. Nat. Hist.
Faurot, Lionel, 4 rue de Commaille, Paris. Micro-Photog., Geol. Dist.,
Emb., Invert. Anat., Histol., Radiates, Sponges.
Fayol, H., Dir. Gén. de la Soc. de Commentry, 76 boulevard Malesherbes,

Paris. Geol., Palæo.

Félissis-Rollin, Jules, rue de Rennes 106, bis, Paris. Coleopt.

Fevre, Ingénieur des Mines, place de la Préfecture, 12, à Arras (Pas-de-

Calais). Geol.

Fiévet, Gustave, Pharmacien de lère Classe, Membre de la Soc. Chim. et de la Soe. d'Hygiène 53, rue Réaumur, et 29, rue de Palestro, Paris.\*

Filhol, Henri, Sous-Dir. du Lab. des Hautes Etudes au Mus. d'Hist. Nat.,

Paris. Vert. Palæo., Vert. Anat. C. Ex.\*

Finot, P. Adrica P., 27 Rue Saint Honoré, Fontainebleau (Seine et (Marne). Orthopt. C. Ex.

Fischer, Dr. Paul, aide nat. au Muséum, 68 boulevard St. Marcel, Paris.

Moll. Flahault, Charles, Prof. de Botanique à l'Université (Institut de Bota-

nique), Montpellier. Crypt. Bot., Vecetable Anat., Physiol.\*
Fleutiaux, Ed., 1, Rue Malus, Paris. Coleopt., Cicindelidæ, Elateridæ.
C. Ex.
Fliche, P., Prof. à l'Ecole Forcstière, 9 rue St. Dizicr, Naney. Bot.,
Geol., Veg. Palæo.
Flot, Docteur ès Sciences, Prof. au Lycée Charlemagne, Paris. Bot.

Fockeu, Dr. Henri, Préparateur à la Faculté de Méd., Lille. Galles des

plantes.\*

Folin, Leopold-Guillaume-Alexandre, Marquis de, Membre de la Commission Scientifique des explorations sousmarines, de l'Aead, Royale des Seiences de Lisbonne, des Naturalistes de Moseou, de la Société Impériale et Royale de Zool, de Vienne, etc., com-mandeur de l'Ordre Royale et Militaire du Christ, Chevalier de plusicurs orders, etc., etc., Biarritz (Basses Pyrenées).

Forcapel, A., Ingenieur à la Cie P.L.M., rue Ste. Praxède 11, Avignon. Geol., Palæo.

Foucaud, J., Memb. de la Soc. Botanique de France, Jardin Botanique de la Marine à Rochefort-sur-mer. Flore de France et Muscari d' Europe.

Fournier, A., Préposé aux Collections d'Histoire Naturelle du musée de Niort (Deux-Sèvres). Geol.

Fouqué, Membre de l'Institut, Professeur au Collège de France, rue Humboldt, 23, à Paris. Gecl.

Fournier, E., ruc de Marengo, 61, à Marseille. Geol., Anth., Préhist-Arch., Moll. C. Ex.\*

Franchet, A., Cur. de l'herbier du Mus., 111 rue Monge, Paris. Bot: Phæn. Plants.\*

Frossard (Charles), Pasteur de l'Eglise réformée, à Bagnères-de-Bigorre (Hautes-Pyrénées). Geol.

Gadeau de Kerville, Henri, Roucn. Zool.\* Gadeceau, Emile, Vice-Prés. de la Soc. des Sciences Nat. de l'Ouest de la France et de la Soc. d'Hort. de Nantes. rue des Hauts Pavés 11, Nantes, Loire-Inférieure. Bot., Phæn. Plants.\*

Gaillard, à Plouharnel, Morbihan. Antiq.

Gain, Edmond, au Laboratoire de Biol. de Fontainebleau, Prof., l'Instit.

Commercial de Paris. Bot., Org. Chem.\*

Gal Frères, Préparateurs Naturalistes, 1 promenade du Cours, Nice.

Oiseaux, Poissons, Cephalopodes, Coquilles, Reptiles, Crustacés, etc. Achat et vente.

Galichon, R., boulevard Haussmann 169, Paris. Ent., esp. Lepid.
Galichon, R., boulevard Haussmann 169, Paris. Ent., esp. Lepid.
Galichon, St. Raphaël, Var. Phys. Geol., Meteo., Geog. Dist., Ethnog.
Gandoger, Michel, Arnas (Rhone). Bot: Phæn. and Crypt. Plants,
Ferns, Mosses, Fungi, Lichens, Algæ. Herbarium. Ex.
Gardin, Savinien, 42 rue de Verneuil, Paris. Bot., Ent.
Garnault, Dr. Paul, Chef des Travaux de Zool. à la Fac. des Sci., Bordery. Full.

deaux. Emb.
Garnier, Jules Jacques, Auteur de la carte géologique de la Nouvelle-Calédonie, 14 rue de Berlin, Paris. Geol., Min., Lithol., Chem., Metall., Elect., Anth., Eth. Garrigou, Docteur en Médecine, rue Valadc, 38, à Toulouse (Haute-

Garonne). Geol.

Ganchery, Paul, Licenciè ès Science Nat., laboratoire de Biol. Vég., Avon (Seine-et-Marne). Phæn. Plants, Histol. Vég.\*

Gaudry, Prof. Albert, Membre de l'Institut, Professeur de Paléontologie

au Muséum d'Histoire Naturelle, rue des Saints-Pères, 7 bis, à Paris. Geol., Palæo.

Gaupillat, G., 13 rue Royale, Paris. Phys. Geog., Photog.\* Gauthier, V., boulevard du Lycée 21, Vanves (Seine). Palæo. (Echinida).

Gautier, Hubert, 27 ruc de Decize, Monlins. Lepid., Coleopt. C. Ex.\* Gautier, Paul, Préparateur à la Faculté des Sciences, rue Ballainvilliers, 58, à Clermont-Ferrand (Puy-de-Dôme). Geol. Gave, L'Abbé, Contaminé sur Arve, Haute-Savoic. Phænerogams. Gavoy, Louis, 5 bis rue de la Préfecture, Carcassonne (Aude). Coleopt. C. Ex.\*

Gay, Hyppolyte, Membre de Comité d'Etudes de la Société Française de Botanique, Instituteur au Corso, par l'Alma (Algérie). Bot : Phæn. Plants, Hort. C. Ex. seeds.
Gay, N. F. François, Dr., Prof. à l'Univ., rne dn Collège 7, Montpellier.

Bot; Crypt. Plants, Algæ, Micro-biol., Mic. Gazagnaire, Joseph, Secrétaire général de la Soc. Ent. de France, 39 rue

de la Clef, Paris. Invert. Anat., Hymenopt., Dipt., Myriop. Genreau, Ingénieur en Chef des Mines, à Clermont-Ferrand (Puy-de-

Dôme). Geol.

Gérard, Cl. Alb., Conserv. des Hypothèques, à Baume les Dames (Doubs). Bot. C. Ex. Gérard, F., Prof., Châtel (Vosges). Bot.

Gervais, Paul, Prof. Comp. Anat., Mus. Nat. Hist., 57 rue Cuvier, Paris. Osteol.

Giard, Alfred, Prof. à la Sorbonne, 14 rue Stanislas, Paris. Dir. du laborat. de Zool. de Wimercux (Pas-de-Calais). Annelides, Ascidies et Crustacés, Champignons parasites des Insectes.\* Girard, Maurice, Prof. Entom. à l'Ecole d'agric. de Grinon, rue Guy Lus-

sac 28. Ent., Bryozoa, Emb., Nemertes.
Girardot, Docteur en Médecine, rue Saint-Vincent, 15, à Besançon (Doubs). Geol.

Girardot, Prof., 63 rue des Salines, Lons-le-Saulnier. Geol.

Giraudias, Louis, Receveur de l'Enregistrement, 12 rue Vietor Hugo, Poitiers. Bot. C. Ex. Plants of western France in exchange for foreign and those of eastern Europe and the Mediterranean. Plantes des Pyrénées en échange de plantes de l'Europe oriental, de le Méditerranée et autres. Dir, de l'Association pyrenéenne pour l'échange des plantes.

Godet, August Alfred, Orange (Vaucluse). Bot: Phan. Plants.\* Gomont, Maurice, rue Notre Dame des Champs 27, Paris. Bot., Algæ.\*

Goossens, Th., boulevard Richard Lenoir III, Paris. Lepid.

Gorceix, a Mont-sur-Vienne par Bujaleuf (Haute-Vienne). Geol. Gorceix, Ch., Capitaine du génie, rue Vanisot, 8, Bayonne (Basses-Pyrénées). Geol.

Gosselet, Professeur à la Faculté des Sciences, rue des Fleurs, 1, à Lille (Nord). Geol.

Gosselin, Edmond, Conserv. du Musée, Donai. Nat. Sci.

Goumet, l'Abbé, Professeur au Collège Saint-Paul, à Angoulême (Charente). Geol.

Gourdon, Maurice, Vice-Président de la Société Ramond, à Bagnères-de-

Luchon (Haute-Garonne). Geol.

Gourret, Paul, Prof. de Min. et d'Hydrol. (Ecole de Médicine), sous

directeur de la Station Zool., 24 rue de Lodi, Marseille.\*
Gramont, Cte. Arnaud de, Paris, 81 rue de Lille, et Le Vignal par Pau (Basses Pyrénées). Geol., Min., Crystall., Lithol., Inorg. Chem.

Grand Eury, Cyrille François, 5 cours Victor Hugo, St. Etienne, Correspondant de l'Inst. de France. Bot., Veg. Palæo., Geol.\*

Grandidier, Alfred, Membre de l'Inst. de France, Rond-Point des Champs-Elysées 6, Paris. Ast., Zool., Geog. Dist., Eth., Ethnog.

Granel, M., Prof. de Bot. Médicale à l'Univ., Dir. du Jardin Bot. de Montpellier.\*

Granjean, route de Limoges 26, Moulins (Allier). Ent: Coleopt.

Grisard, Jules, Sec. de la Revue des Sciences Naturelles appliquées, Soc Nationale d'Acclimatation de France, rue de Lille 41, Paris. Bot., Hort , Bibliog., Arch.\*

Grossouvre, de, Ingénieur des mines, Bourges (Cher). Geol.

Groult-Deyrolle, naturaliste, de la maison "Les Fils d'Emile Deyrolle," 46 rue du Bae, Paris. Zool., Geol., Bot., Anat., Microg. Sells and Exchanges; Catalogues free on demand.\*

Guépratte, L., 21 ave. Dumesnil, St. Mandé, Seine. Lepid.

Guérin, Eugène, Vice-Prés. de la Soc. des Sciences Nat. de Mâcon, 23 quai du Sud, Mâcon (Saône-Loire). Coleopt., Hemipt., Lepid., Orthopt., Geol., Min., Numis., Moll., Praehist. C. Ex.\*

Guerne, Baron Jules Germain de, Zoölogist on board the yacht of H. H. the Prince of Monaco, rue de Tournon 6, Paris. Zool., especially invertebrates. C. Ex. Marine invert. in alcohol, deep sea and surface fanna, food of fishes and other marine animals.\*

Guignard, Dr. Leon, Prof. à l'Ecole Supérieure de Pharmacie de Paris. Bot.

Guillaud, J. A., Dr., Prof. à la Faculté de médicine de Bordeaux, Bordeaux. Bot.\*
Guillaume, M., Lyons. Ast.

Guillemin-Tarayre, Edmond, Ingénieur civil des Mines, rue Monsieur-le-Prince, 58, Paris. Geol.

Haller, Dr. Albin, Membre Correspondant de l'Acad. des Sciences et de l'Acad. nationale de médicine de Paris, Dir. de l'Inst. chimique de la Faculté des Sciences, 14, rue de Mctz, Nancy. Chem.\*

Hallez, Paul, Professeur à la Faculté des Sciences, rue de Valmy 9, Lille (Nord). Zool. C. Ex. Lower animals in alcohol, particularly Turbelleria, Nematodes, Bryozoaires. Hamonville, Baron Louis d', Consciller-Général au Château de Manonville, par Noviant-aux-près, Meurthe-et-Moselle. Orn., Ool., Con. C. Buys or exchanges Trochilidæ in skin. Ex. birds' eggs of Europe and shells of France for exotics. Spec. Cypselidæ, Hirrundinidæ., Paradiseidæ.\*

Hamy, Th. T. Ern., Prof. au Mus. d'Hist. Nat., Conserv. du Musée d'Ethnog., 40, rue de Lübeck, Paris. Anth., Ethnog.

Harmand, L'Abbé, La Malgrange, près de Nancy, Meurthe-et-Moselle. Phanerogams, Lichens.

Haug, E., Chef des travaux pratiques au Laboratoire de la Sorbonne, 2 rne Antoine Dubois, Paris. Geol., Palæo.

Hecht, Dr. E., rue Isabey 7, Nancy. Zool. Heckel, Dr. Edouard, Prof. à la Faculté des Sciences et à l'Ecole de Médecine, Dir. du Jardin bot. et du Musée colonial, 31 cours Lieutaud, Marseille. Bot: Phan. Plants, Mat. Méd. et Vég. C. Ex.\*

Henneguy, L. Felix, Dr., Préparateur au Coll. de France, 9 rue Thénard, Paris. Gen. Biol., Emb., Ent., Protozoa.\*

Héribaud, Frère, Clermont-Ferrand, Puy-de-Dôme. Phænerogams. Héron, Rover, 22 rue de Cléry, Paris. Batrachia.

Herouard, Edgard, Dr. Sci., 1 rue du Pont de Lodi, Paris. Mic., Zool., Geog. Dist., Emb.. Anat.\*

Henly M. place de la Bastilla 6 Paris. Levid

Heulz, M., place de la Bastille 6, Paris. Lepid.
Hollande, Prof. au Lycée, rue d'Italie, 17, Chambéry (Savoie). Geol.
Hours-Humbert, Henry, Virien sur Bonrbe (Isère). Goleopt.
Houry, Alphonse, Entomologiste, Mer (Loir-et-Cher). Gen. Ent.,
Photog., Geol., Min., Con. C. Ex. Coleopt., Lepid., Hymenop., Hemipt., Dipt., etc.

Hovelacque, Maurice, Docteur ès Sciences Naturelles, rue Castiglione, 1, Paris. Bot., Palao., Geol., Min., Lithol. C. Ex.\*

Huber, J., Dr. ès Sciences, préparateur, Inst. de Bot., Montpellier. Bot: Alga.\*

Huber, Wm, 58 rue de Courcelles, Paris. Glacial. Geol., Geog. Dist. Hue, l'Abbé A., rue de Cormeille 104, Levallois-Perret (Seinc). Lichens.\* Huet, Dr. L., Maîtrc de Conférences, Caen (Calvados). Crustacea. Hyacinthe, Ribant, rue St. Jacques, Moissac (Tarn-et-Garonne). Bot. C. Ex.

Itasse, Leon, rue de Copenhagen 6, Paris. Microg, Diatoms.

Jackson, James, Librarian Société de Géographie, boulevard St. Germain 184, Paris.

Jacquemaire, Miss Marie, Verdun (Meuse). Ent., Lepid. C. Jacquot, E., Inspecteur général des Mincs, rue de Monceau, 83, Paris.

Jadin, F., Chef des travaux à l'Instit. de Bot., Montpellier. Veg. Anat.\* Janet, Charles, Beauvais (Oise). Invert. Palæo., Strat. Geöl., Min., Crystall., Lithol., Zool., Morphol., Emb., Invert. Anat., Histol., Artic., Ent., Hymenopt. C. Geol.\*

Janet, Léon, Ingénieur au Corps des Mines, 85, rue d'Assas, Paris.

Palæo., Geol., Min., Crystall., Lithol., Chem., Metall., Phys.\*

Jannel, C., boulevard de Strasbourg, 67, à Paris.

Jannettaz, Edouard, Maître de conférences à la Sorbonne, Asst. de Min. an Mus. d'Histoire Nat , boulevard St.-Germain, 86, Paris. Min.\*

Janssen, Jules, Dir. de l'Observ. d'Ast. Physique de Meudon (Seine et Oise). Ast., Photog., Meteo.

Jardon, Louis, Preparateur du Cours de physiol. générale et comparée à la Faculté des sciences de Lyon. Veg. Physiol.

Jeanjean, Adrien, à Saint-Hippolyte (Gard). Geol-

Jonan, II., Cherbourg. Zool., Anth., Bot.\*
Joubin, Dr. Louis, Prof. à la Fac. des Sci., Univ. de Rennes. Emb., Brachyop., Cephalop.

Jourdes, Raymond, Instituteur à Grandvilliers, par Damville (Eure).

Bot: Phæn. and Crypt. Plants, Ferns. C. Ex.

Jousset de Bellesme, Physiologiste, Dir. des Services de Pisciculture de la
Ville de Paris, Château de St. Jean à Nogent-le-Rotron (Eure-et-Loire).

Joyenx, C., rue de l'Est 13, Melun. Coleopt.

Joyeux-Laffuie, Dr. Jean, Prof. de Zool. et Physiol. Comp. à la Faculté des Sci. de Caen, Laboratoire Maritime de Luc-sur-mer (Calvados). Zool., Gen. Biol., Emb., Worms, Mollusks, Sponges. C. Ex. Julien, Alphonse, Professeur à la Faculté des Sciences, Place de Jaude,

40, à Clermont Ferraud (Puy-de Dôme). Geol.
Jullien, Dr. Jules, 16 rue St. Guillaume, Paris. Bryozoa.
Kerhervé, L. B. de, Licencié ès-Sci., 21, rue du Cherche-Midi, Paris.
Zool., Ent., Coleopt. Crustacea. C. Ex.\*
Kerviler, Ingénieur en Chef, Saint Nazaire. Arch., Bibliog., Autog.
Kieffer, Prof., Dir. adjoint du Jardin Bot., 22 rue Bibliothèque, Marseille.

Phæn. Plants, Hort. C. Ex.\*

Kilian, W., Doct.-ès-Sciences, Prof. à la Faculté des Sciences, 11 bis,
Cours Berriat, Grenoble. Palæo., Gephalopodes, Geol. des Alpes. Collaborateur principale au Service de la carte géol. de France.

Klincksieck, Paul, 52 rue des Ecoles, Paris. Librairie des Sciences

Naturelles.\*

Kæhler, R., Route de Grenoble 68, Monplaisir, Lyon. Emb., Echino-derms.\*

Kromm, F., Bordeaux. Ast.

Künstler, Dr. J., Prof. à la Faculté des Sci., Bordeaux. Zool., Protozoa,

Labonne, Henry, Dr. en méd., Licencié ès sciences, 18, rue de Médicis, Paris. Coleopt.

Laborie, Jules, Géom. expert, Anterrive par Auch, Gers. Géom.\*

Lacoste, Vital, Léonce, Prof. Départemental d'Agriculture, du Gers. à Auch. Phan.

Lacroix, Adrien, r. Clémence St. Laure 1, à Toulouse. Urn.

Lacroix, Alfred, boulevard Raspail, 219, a Paris. Geol.

Lacroix, Alfred, Bothevard Ruspan, 219, a 1 ans. George.

Lacroix, F., Conserv. du Musée d'Hist. Nat., Macon (Saône et Loire).

Bot: Phæn. Plants, Ool., Moll., Sponges.

Lacvivier, C. de, Proviseur du Lycée, Pau. Geol.

Lahille, Fernand, 41 Allee St. Etienne, Toulouse. Tunicata, Anat.

Lambert, J., Procureur de la République, St. Menehould, Marne. Echin. Lamothé, L. J. B. de, Lieutenant-Colonel d'artillerie, Commandant les batteries alpines, à Grenoble (Isère). Geol.

Landesque, l'Abbé, Curé, à Sermet, par Castelmoron (Lot-et-Garonne). Geol.

Landolt, Dr. Edmund, rue Volney 4, Paris. Ophthalmology.\*

Lantier, Dr. Etienne, Tannay (Nièvre), Créateur de l'Ecole Antiseptique Conservatrice, en 1870-71, à Paris à l'ambulance générale de l'ad-Larrazet, Prof., rue des Fossés Saint Marcel, 13, Paris. Geol.
Lartet, Louis, Prof. à la Faculté des Sciences, rue du Pont-de-Tounis 44,
Toulouse (Haute-Garome). Geol.

Lasne, Henry, Ingénieur des Arts et Manufactures, rue Boileau 57, Paris.

Geol. Lattenx, Paul, M.D., rue du Louvre 17, Paris. Min., Crystall., Mic., Histol. C. Ex.

Launay, L. de, Ingénieur au Corps des Mines, 2, rue Pigalle, Paris. Geol., Lithol.

Lavarde, Roset de, Château d'Entumia, en Paramé (Ille et Vilaine), près St. Malo. Min., Moll., Palao., Zool.

Le Breton, André, boulevard Cauchoise 43, Rouen (S. I.). Mycologie (principalement de Normandie). Ex. et Achat d'ouvrages et de Mémoires sur la Mycologie générale et particulière.

Leclerc du Sablon, Doct.-ès-Sciences, Aide-naturaliste au ¡Mus. d'Hist. Nat., 1, rue Vauguelin, Paris. Bot. Lecomte, Alfred (l'abbé), Guillemont, par Combles (Somme). Coléopt.

C. Ex.\*

Léenhardt, Franz, Prof. agrégé à la Faculté de théologie, faubourg du Moustier 12, Montauban (Tarn-et-Garonne). Geol. Legré, Ludovie, rue Venture 11, Marseille. Phæn. Piants, Mosses.\*

Legré, Urbain, boulevard Longchamp 2, Marseille. Lepid.\* Leignette, Adrien, Dr. ès sciences, 21 rue Tronchet, Paris. Veg. Physiol. Le Marchand, Augustin, Ingénieur, Petit Quevilly, Seine-Inférieure. Geol.

Le Mesle, rue des Boulangers, 8, Paris. Geol.

Lemoine, V., M.D., rue Souffiot, 11, Paris. Geol. Le Monnier, Prof., Rue de la Pépinnière, Nancy.

Lennier, G., Conservateur du Mus., Havre. Geol., Palæo. Leprevost, Charles, rue des Journeaux 32, Paris. Coleopt., Lepid. Leriche, J. B., Directeur-propriétaire de "l'Auxiliaire de l'Apiculteur du Naturaliste," etc., rue Vascosan 19, Amiens (Somme), ou rue Legendre 148, Paris. Ent., Hymenop., Apidæ.\*
Lesage, Pierre, Faculté des Sciences, Rennes. Bot., Anat.

Lescœur, Henri, Prof. à la Faculté de Médicine de l'Etat, à Lille (Nord).

Chem., Metall., Physics, Mic., Photog.

Le Sencchal, Conservateur du Musée d'Hist. Nat., 6 rue St. Sauveur,

Caen. Zool., Crust.

Lesne, Pierre, Préparateur au Mus. d'Hist. Naturelle, 57 rue Cuvier, Paris. Ent.\*

Lettellier, A. S. D., Prof. Hist. Nat. au lycée de Caen. Moll.

Letellier, Henry, Care of Letellier et Fils, Caen, Calvados, Nurserymen, Plant, seed, bulb, general hort. merchants, agents for foreign firms. Ex. or sell on com. every interesting new Hort production. Bot., Hort., Geog. Dist. C. Ex.

Lethierry, Lucien, rue Blanche 46, Lille. Coleopt., Hemipt,, Hymenopt.\* Léveillé, Albert, Archiviste-Bibliothécaire, Societé Ent. de France, rue du Dragon 10, Paris. Col. eur., alg. et tun.; Temnochilides exot.;

Hémipt.

Léveillé, H., Directeur du "Monde des Plantes," Revue universelle et bimensuelle de botanique, organe de l'Académie Internationale de Géographie botanique, 104 rue de Flore, Le Mans (Sarthe).\* Lévèque, A., Prof., rue de l'Avalasse 39, Rouen. Macro-Lepid., Micro-

Lepid., et chenilles preparées. Lhote, II., Naturaliste, 31 rue de Clichy, Paris. Macro-Lepid., Micro-

Lepid., et chenilles preparées.\*

Ligneris, Jacques, Marquis des, 240 rue de Rivoli, Paris. Hort., Chem., Physics, Elect., Photog., Anth.

Lignier, Prof. de Bot. à la Fac. des Sc. de Caen (Calvados). Bot., Anat., Linder, Inspecteur Gén. des mines, 38 rue du Luxembourg, Paris. Geol.,

Lirondelle, Vital, rue du Magasin à poudre 10, Donai. Sciences naturelles. Lloyd, James, rue François-Bruneau 15, Nantes, Loire-Inférieure. Bot. Locard, Arnould, Ingenieur civil, quai de la Charité, 38, Lyon (Rhône). Geol.

Lodin, Ingénieur en chef des Mines, avenue du Trocadéro 4, Paris. Geol.

Longchamps, Prof. G. de, Prof. de Mathematiques Spéciales, Lyceum of St. Louis, 9, Val de Grace, Paris. Math.\*

Lorrain, Miss Louise, 13 place St. Martin, Metz. Bot.

Lory, P., Préparateur de géol. à la Faculté des Sciences, Grenoble (Isère). Geol.

Lucand, M. le Capitaine, 33, avenue de la Gare, Autun (Saône-et-Loire).

Cryptogams.

Lustrac, André de, Licencié ès Sci. Nat. et en droit Prof. au Coll. St. Elme, Arcachon (Gironde). Bot: Phæn. and Crypt. Plants, Bacteriol., Mic., Photog. Herbarium. Ex.
 Mabille, Prof. Paul, rue du Cardinal Lemoine, Paris. Ent., Lepid.,

Hesperides du globe. C. Ex.
Macé, E., rue du Puits 4, Vendome. Coleopt., Orthopt.
Madiot, V., Jussey (Haute-Saône). Phæn. Plants. C. Ex.
Maes, E. Albert, r. des Landy 37 bis, à Clichy (Seine). Orn.

Magitot, Dr. E., Membre l'Acad. de Méd., 9, boulevard Malesherbes,

Paris.\*

Magnien, Lucien, Prof. d'Agriculture du Departement de la Côte-d'Or, rue Bossuet 10, Dijon. Agric.\*
Magnin, Ant, Prof. à la Fac. des Sci., Besançon. Bot., Lichens.
Mailho, Prof. au Grand Séminaire à Pamiers, Ariège. Ex.\*

Maillaird, Dr. Gustave, bibliothécaire du Musée d'Annecy (Hte. Savoie). Min., Geol., Petrology, Prehist. Arch., Anth., Numis., Con., Eth.,

Bibliog., Photog., Sigilligraphia. C. Ex. Maisonneuve, Dr. Paul, Prof. de Zoologie à la faculté libre des Sciences, rue Volney 5, Angers.

Maitre, M. P., Marseilles. Ast.
Malaguin, A., Préparateur du Cours de Zool. à la Faculté des Sciences,
Lille. Chætopodes.
Malinvaud, E., Sec. Gén. de la Soc. Bot. de France, 8 rue Linne, Paris.

Mallard, E., Inspecteur Gén. des Mines, Prof. à l'Ecole Nationale des

Mines, 11 rue Médicis, Paris. Min.

Malvezin, J. E., route de Tulle, enclos du Bel-Air, à Aurillac. Bot.

Mangin, L., Doct. ès Sciences, Prof. au Lycée Louis-le-Grand, 2 rue de la

Sorbonne, Paris. Bot., Geol. Mantin, Georges A., 54 quai de Billy, Paris, et Chateau de Bel-Air, Olivet (Loiret). Bot., Phan. Plants., Hort., Orchids. C. Ex.\*

Maquenne, Dr., aide-naturaliste au Mus., rue de Buffon 63, Paris. Chem.\* Marçais, L'Abbé, Ed., Sec. Gén. de la Soc. française de Bot. et de la Soc. des Sciences physiques et naturelles de Toulouse, 19 rue Ninau, Toulouse. Bot.

Marchand, Eugène, Chemist, Membre de l'Académie de Medicine, Fé-

camp (Seine Inférieure). Agric., Chem., Hyg., Phys., Meteo.\*
Marey, Dr. Etienne J., boulevard Delessert 11, Paris. Phys. \*
Margerie, Emmanuel de, 132 rue de Grenelle, Paris. Phys. Geol., Geog.,
Bibliog.\*

Maricourt, Baron de, La Thierraye, par Souday (Loir-et-Cher). Arch., Moll., Orn., Ool., Lepid., Coleopt., Préhist. Relics, Postage Stamps. Correspondence solicited. C. Ex.\*

Marion, A. F., Prof. à la Faculté des Sciences, Marseilles (Bouches-du-

Rhône). Zool., Bot., Veget. Palæo. Marmottan, Dr., rue Desbordes-Valmore 31, Passy (Paris). Ent: Coleopt.,

Marquis, Instituteur à Chevillé, par Brulon (Sarthe). Hymenopt. Marriott, P. William, M.D., Pavillon Ferraironi, Mentone. Bot. C. Martel, E. A., 60 rue Richelieu, Paris. Phys. Geog., Meteo., Arch.\* Martin, David, Professeur au Collège, à Gap (Hautes-Alpes). Geol. Martin, Rêné, au Blanc (Indre). Vert., Neuropt.
Martiniere, H. M. P. de la, en mission archéologique du Maroe, gouver-

nement français, 9, Boulevard du Château, Neuilly sur Seine. Arch., Min Photog. C. Matheron, Ph., Ingenieur Civil, 86 boulevard Notre-Dame, Marseilles.

Geol., Palæo.

Mauduit, G., M.D., Crest (Drôme). Orn., Hemipt.

Maugin, Gustave O., rue du Pont des Pierres 22, Douai (Nord). Phæn. Plants, Ferns. C.\*

Manpas, E., Sous-bibliothecaire à Alger. Infusoria.

Mauricé, Charles, Docteur ès Sci. Nat., Prof. Univ. Catholique de Lille, Chateau d'Attiches, par Pont à Marcq (Nord). Embryol., Ascidians.\* MeAll, Robert W., D.D., F.L.S. (London), 28 villa Molitor, Paris. Bot.,

Physics.

Mégnin, Aneien Pres. Soc. Zool. de France, 6 avenue Aubert, Vincennes.

Acariers, Entozoaires, Parasites, en général.\*

Ménard, Ernest, Prof. de Philos. au petit Séminaire de Montmorillon (Vienne). Bot., Phæn. Plants, Funqi. C. Ex.

Ménard, St. Yves, Vétérinaire, Docteur en Médécine, Dir. de l'Institut de Vaccine animale; Prof. d'Hygiène industrielle et d'Histoire Naturelle appliquée à l'Ecole centrale des Arts et Manufactures, rue Ballu 8, Paris.

Menegaux, Aug., Lab. M. Perrier, eare of Soc. Philomathique, Paris.

Moll.

Ménier, Chas., Prof. à l'Ecole de Médécine et de Pharmacie, 1 rue Pré-

mion, Nantes. Crypt. Plants, Fungi; Hort., Photog.
Mer, Emile, Membre de la Soc. Nat. d'Agric. de France, Inspecteur des forêts à l'Ecole forestière, Nancy, 19 rue Israël Sylvestre. Bot: Phæn. and Crypt. Plants, Veg. Physiol., Silviculture.

Mercey, N. de, à la Faloise (Somme). Geol. Mermet, Achille, Prof. Agrégé de Chimie au Lycéc Charlemagne, Chef de Lab. à l'Ecole Centrale des Arts et Manufactures, 8 quai Henri IV, Paris. Chem., Metall., Physics, Elect., Mic., Photog., Bibliog., Arch.

Mesmin, Louis, Propriétaire, à Chez Gabillaud, Cne. de St. Barbant, (Hte.

Vienne). Coleopt. d'Éurope et circum. Mesnil, Felix, Inst. Pasteur, Agrégé-Préparateur à l'Inst., 25, rue Dutot, Paris. Zool., Worms, Bacteriol.\*

Meunier, St., Aide-Naturaliste au Mus. d'Hist. Nat., 7 boulevard St. Ger-

main, Paris. Geol., Lithol., Palæo.

Michaud, Eugène, ave. de la Gare, Montlucon, Allier. Coleopt.

Michel-Lévy, Ingénieur en chef des mines, Directeur du service de la Carte geologique détaillée de la France, rue Spontini, 26, à Paris.

Millot, Adolphe, rue Claude Bernard 23, Paris. Coleopt., Lepid.\*

Millot, Charles, rue Gilbert, 2, Naney (Meurthe-et-Moselle). Gen. Ent., Meteo.\*

Milne-Edwards, Prof. Alphonse, C.M.Z.S., Jardin des Plantes, Paris. Miot, Henri, Officier de l'Instruction Publique, Membre à vie de la Soc. Ent. de France, Correspondant du Musée royal d'Hist. Nat. de Belgique, Juge d'Instruction au tribunal civil de Beaune (Cote-d'Or). Econ. Ent., Crustacea, living and fossil moll. C. Ex.\*

Mitschnikoff, Elias, Pasteur Inst., Paris. Emb., Sponges, Orthomed., Calenterata, Echinoderms.

Monaco, S. A. S., Le Prince Albert de, 25 Faubourg St. Honoré, Paris. Meteo., Zool., Gen. Biol., Geog. Dist., Ichth., Crustacea, Worms, Moll., Radiates, Sponges, Protozoa, Hydrogrpahy and Maritime Zool., Navigation, Deep sea sounding and dredging. C. Ex.\*
Moniez, Romain, Prof. d'Hist. Nat. à la Faculté de Médécine, Lille. Hel-minthes, F. W. Entomostraea, etc.

Monnot, Edouard, Lycenm, Troyes. Coleopt. Montano, Dr. en Med. et Dr. ès Sci. Nat. au Château de Gémil, par

Montastruc (Haute-Garonne). Anth., Geog.\*

Moreau, Féy (Lorraine). Bot., Ent.

Morel, Léon, Officier de l'Inst. Públique, etc., Reims, rue de Sedan 3.

Arch., Numis.\*

Morgan, Ingénieur Civil des Mines, chez M. le comte de Saint-Martin, ave. Victor Hugo, 26, Amiens (Somme). Geol.

Mortillet, Gabriel de, Prof. à l'Inst. anth. attaché au Musée arch., au

chateau de Saint-Germain-en-Laye (Scine-et-Oise). Geol. Motelay, Léonce, Membre de la Soc. Bot. de France, et Archiviste Biblio-

thécaire de la Soc. Linnéene de Bordeaux, etc., etc., cours de Gourgue, Bordeaux. Bot. C.

Mouillefarine, Ed., rue Saint-Anne 46, Paris. Bot. Univ. Herbarium.

C. Ex. in plants of all countries.\*

Mouret, George, Ingénieur en chef des Ponts et Chaussées, 40 rue Mellaise, Niort (Deux-Sèvres). Strat. Geol., Philos.\*

Munier-Chalmas, Sous-Dir. du Lab. de Géol. à la Sorbonne, Maitre de

Conférences à l'Ecole Normale Supérieure, 75 rue Notre-Dame des Champs, Paris. Geol., Palæo.

Nachet, A., 17 rue Saint Séverin, Paris. Min., Lithol., Physics, Mic. Nadaillac, Albert, Marquis de, Correspondant de l'Inst., etc., 18 rue Du-

Nadaillac, Albert, Marquis de, Correspondant de l'Inst., etc., 18 rue Duphot, Paris. Anth., Arch., Eth., Ethnog.\*
Nadot, Armand, 42 rue de Verneuil, Paris. Phæn. Plants, Mosses, Hymenopt., Lepid., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.
Napoléon-Bonaparte (le Prince Roland), 22 cours la Reine, Paris. Geol., Photog., Mêteo., Bibliog., Zeol., Geog. Dist., Anth., Eth., Ethnog.\*
Naudin, Charles, Mem. Acad. Sci., Paris, Dir. du Lab. bot. de la Villa
Thuret. Antibes (Var.). Phæn. Bot., Hort., Agric., Meteo., Gen.
Biol., Philol., Arboriculture. C.\*
Neyraut, E. Jean, Emoloyé au Chemin de fer du Midi, 17 rue des Camps,
Bègles (Gironde). Bot. Phæn. and Crypt. Plants, Ferns., Mosses,
Fungi, Lichens, Algæ, Desmids, Diatoms. C. Ex.\* (Général).
Nicklès, René, Docteur ès Sciences, Ingénieur civil des mines, rue de
Rennes, 59, Paris, et à Dommartemont, près Naucy (Meurthe-et-

Rennes, 59, Paris, et à Dommartemont, près Naucy (Meurthe-et-Moselle). Geol. Nicolas, Dr. A., Prof. agrégé à la Faculté de médecine, Nancy (Meurthe-

et-Moselle). Anat, Histol.\*

Nicollon, E., Le Croisic (Loire Inférieure). Bot : Alga, Geog. Dist., Orn.,

Crust., Moll., Sponges. Nivoit, Prof. Ingénieur-en-Chef des Mines, 2 rue de la Planche, Paris.

Noel, Paul, Prof. des Sciences, Dir. du lab. regional d'Ent. Agric., route de Neufchatel 41, Rouen. Ent., Hymenopt.. Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach., Myriop. C. Ex.\* Nolan, Lieut. d'infanterie breveté, à l'Etat-Major de la 27e Div., Grenoble

(Isère). Geol.

Nugue, l'Abbé A., à Couptrain (Mayenne). Coleopt., Esp. Genus Chrysomela. Desires to know some one who will exchange exotic beetles (Coleopt.) for French ones. Writes both English and French.\*

Nylander, Dr. William, 61 passage des Thermopyles, Paris. Lichens.

Oberreith, Maurice, rue Caumartin 24, Paris. Volcopt.

Oberreith, Maurice, rue Caumartin 24, Paris. Volcopt.

Oberthür, Charles, Rennes (Ille-et-Vilaine). Ent., Lepid. Possède les collections de Boisduval, de Guenée, de Graslin, de Constant Bar, de Bellier-de-la-Chavignerie, de Chr. Ward, etc. Publie les Etudes d'Entomologie, ouvrage, avec planches coloriées, exclusivement devoné aux Lépidoptères; Exchange of Lepid. from all parts of the world.\*

Oberthür, René, Rennes (Ille-et Vilaine). Ent: Coleopt. C. Ex. Offre pour échange des Coleopt. de toutes les parties du monde. Possède les collections de Chaudoir (Carabicidæ), Steinheil, Rosenhauer, Thorey, Wehncke (Hydrocanthares), Mniszech von Harold, van Laensberge, Thomson, Gehin, de Bonvouloir, H. W. Bates, etc. Publie les Coleopterorum novitates.\*

Odier, Georges, Polytech. School, 3 avenue du Coq, Paris. Coleopt.,

Hemipt., Lepid.

Hemipt., Lepid.

Chlert, D. P., Conservateur la Bibliotheque, et du Musée d'Histoire Naturelle, 29, rue de Bretagne, Laval (Mayenne). Palæo., Geol.

Olivier, Ernest, Dir. de la Revue Scientifique du Bourbonnais et du Centre de la France, Les Ramillons près Moulins (Allier). Bot., Herpetol., Coleopt., Hemipt., Orthopt. C. Ex.\*

Oliver, Louis, Docteur ès Sciences, Directeur de la Revue générale des Sciences, 34 rue de Provence, Paris. Gen. Biol.\*

Ollivry, G., La Chapelle sur Erdre, Loire-Inférieure. Lepid.

Onésime, Frère, Prof. Pensionnat des Frères des Ecoles Chrétiennes, Montée St. Barthelemy 24, Lyon. Geol., Min., Zool. C.

Oustalet, Asst. au Mus. d'Histoire Nat., rue Buffon, 55, Paris. Geol.

Oustalet, Asst. au Mus. d'Histoire Nat., rue Buffon, 55, Paris. Geol. Pagnoul, Dir. de la Station Agronomique du Pas-de-Calais, Arras. Agric., Chem., Meteo.

Panau, Ch., Verdun (Meuse). Phænerogams, Mosses. Parâtre, Réné, Argenton-sur-Creuse, Indre. Herpetol. (Batrachians).

Parmentier, Général Théodore, 5 rue du Cirque, Paris. Ast., Philol. Parran, Alphonse, Ingénicur en chef des Mines, rue des Saints-Pères, 56, à Paris. Geol.

Passy, Dr. Paul Ed., rue de Longchamps 92, Neuilly-St. James. Physiologie du langage.\*

Pasteur, Prof. L., Sec. de l'Institut, Paris. Hygiene.
Patou, Jules, la Chapelle Moche (Orne). Lepid.\*
Patouillard, N., Pharmacien, Fontenay Sous Bois, près Paris. Fungi (exotic).\*

Paulin, Médecin-Vétérinaire, St. Dizier (Haute Marne). Palæo.

Pavillot, Joseph, Lyon. Con., Coleopt. Exotiques, Lamellicornes, Longicornes.

Pelletan, Dr. Jules, Prof. Histol. et Mic., Univ. de Paris, rue de Lille 3, Paris. Dir. du "Journal de Micrographie." Bot., Chem., Mic., Zool., Gen. Biol., Emb., Anat., Articulates, Gen. Ent., Crustacea,

Worms, Moll., Radiates, Protozoa, Infusoria. C. Ex.\*
Pelletier. Horace, Madon près Blois par les Montils; Officier d'Académic.

Bot., Ent., Magnetisme, Hypnotisme, Physique.\*

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Biehringer, Dr. Joach., Erlangen.

Bischoff, Chr., Karlsruhe, Baden. Lepid.

Blasius, Dr. Rudolf, Prof., Technische Hochschule, Brunswick, Petrithor-Promenade 25. Orn.

Blasius, Dr. Wilhelm, Prof. Technische Hochschule, Dir. Bot. Gar. und Mus. Nat. Hist., Ganss-Str. 17, Brannschweig. Zool., Mam., Orn., Osteol., Mic. C. Ex. Wishes mammals and birds of all countries, especially in spirit, skeletons or skins.\*

Blochmann, Dr., Prof. ord., Rostock. Zool., Emb.\*
Bock, Freiherr Hans von, Motzstr. 91, Berlin. C. of Lepid.
Bodemeyer, Wilhelm von, Sanitätsrath, Hannover. Lepid.
Boecker, Heinrich, Mikroskopisches-Institut, Wetzlar. Mic., Macro-Lepid. C. Ex. Wishes exotic Lepid. for microscopic objects. Will send gratis my new Catalogue of mic. preparations.\*

Boehm, Prof. Dr. G., Palæont. Instit. d. Universität, Freiburg in Baden. Vert. and Invert. Paleo., Strat. Geol., Min., Crystall., Zool., Geog.

Dist., Vert., Mammals, Artic., Crustacea, Moll., Radiates, Sponges,

Protozoa. C. Ex.\* Boettger, Oskar, Prof. Dr., Seilerstr. 6, Frankfurt (Main). Invert. Palæo., Geog. Dist., Herpetol., Moll. C.

Böhm, Dr. Alex., Preparator Anat. Anstalt, Munich.

Bohnstedt, Prof. Dr., Luckau, N.-L., Preussen. Phan. and Crypt. Plants. C. Ex.

Bolau, Dr. Heinrich (C.M.Z.S., London), Director des Zoologischen Gartens, Hamburg. Zool., especially Mammals and Birds.\*

Bonnet, Dr. Robert, Dir. Anat. Anstalt, Giessen. Mammals, Emb.
Borgert, Adolf, Dr. Phil., Zool. Inst., Kiel. Mic., Photog., Zool., Gen..
Biol., Geol. Dist., Hist., Protozoa, Planktol., Tunicata. C. Anth.\*
Borggreve, Bernard, Prof. Dr., Oberforstmeister, Wiesbaden. Bot., Gen. Biol., Geog. Dist., Orn., Ent.\*

Born, Gustav, Prof. u. Prosector am Anatom. Inst., Breslau, Wallstr. 8. Mic., Gen. Biol., Morphol., Emb., Vert. Anat., Vert., Mammals, Orn., Herpetol., Osteol., Myol., Histol.
Bornemann, Gustav, Gr. Funkerstr. 1, Magdeburg. Lepid. Will buy

and ex.

Bornemann, Dr. J. G., Eisenach. Algæ, Palæo. (Vert., Invert., Veg.), Strat. Geol., Mic., Sponges, Protozoa. C. Ex. Bornmüller, Joseph, Kaiserin Augustastr. 28, I. Weimar. Bot: Exploring Travels, Herbaria, Flora Orientalis.\*

Bornträger, Prof. Aug, Univ. Heidelberg. Chem., Pharm.\* Borst, L., Lehrer, Medolden, bei Sherrebeck (Schleswig-Holstein.) Bot.

Gramineæ, Cyperaceæ. Böttcher, August, Physik Prof., Berlin C., Brüderstr. 30. Min., Zool., Anat., Anth., Ethnog., Mam., Orn., Ichth., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach., Myriop., Crustacea, Worms, Moll., Radiates, Sponges, Protozoa. C. Ex.\*
Boveri, Theodor, Munich. Zool., Gen. Biol., Morphol., Emb., Ool.

Braem, Fritz, Dr. Phil., M.A., Zool. Inst. d. Univ., Breslau. Zool., Gen.

Biol., Emb., Invert. Anat.\*
Branco, Prof. Dr. W., Mineral Mus. der Universität, Koenigsberg in Prussia.

Brandis, Sir Dietrich, F.R.S., Bonn, Kaiserstr. 21. Bot: Phæn. Plants. C. Ex.\*

Brandt, Prof. Dr. Kiel. Zool., Radiolaria, Geog., Vert., Biol. Brauer, Dr. August, Marburg i, Hessen, Zool. Inst. Zool.\* Braun, Prof. Dr. C. F., Univ., Tübingen. Phys.\* Braun, Prof. Dr. M., Rostock. Vermes.

Braun, Max, Dr., Prof. ord. Zool. Mus., Königsberg.

Brauns, Prof. David, Ph.D., M.D., Univ., Halle. Geol., Min., Palao., Eth.

Brauns, Reinhard, Dr. Phil., Privatdocent, Marburg. Phys. Geol., Min., Crystall., Lithol.\*

Breitfeld, Alex., Dr. Phil., Tarnowitz. Bot., Geol., Min., Chem., Physics. C. Ex. Brendel, Martin von, Greifswald. Ast.

Brendel, Martin von, Greifswald. Ast.
Brenske, Ernst, Potsdam. Ent., Coleopt. C. Ex.\*
Brick, Carl, Dr. Phil., Bot. Mus., Hamburg. Bot: Phæn. and Crypt.
Plants, Ferns, Fungi, Algæ.
Britzelmayr, Max, Augsberg, Holbeinstr. 1. Fungi.\*
Brock, Joh., Dr., Privatdocent, Göttingen. Vert, Zool.
Brühl, Prof. Dr. J. W., Heidelberg. Chem., Physics.\*
Bruhns, Dr., Privatdocent a. d. Univ., Bonn. Petrog., Geol.\*
Brunn, A. von, Dir. Anat. Inst., Rostock.\*
Brunn, Dr. M. v., Naturhist. Mus., Hamburg. Ent., Orthopt., Neuropt.

Bruno, H., Privatdocent, Univ., Asst., Zool. Inst., München, Kaulbachstr. 62 a. Zool., Ichth.\*

Buddeberg, Dr., Director der Realschule, Nassau. Coleopt.\*

Bülow, C., Assist. Zool.-Zoot. Inst., Erlangen.

Bürger, Julius, Hainstr. 2, Leipzig. Diatoms arranged. Mic., Mosaikpräparate.\*

Burger, Dr. Otto, Privatdocent der Zool., Göttingen.\*

Burmeister, Ernst H. H., Director, Langereihe 37 b., Lubeck. Bot., Mic., Zool. C. Ex.\*

Buschbaum, Dr. C., Hanover. Ast.

Busse, Ed., Berlin, N., Pankow, Maximilianstr. 50. Emb., Anat., Eth., Orn., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orlhopt., Neuropt., Arach., Myriop., Crust. C. Ex.\*

Bütschli, Otto, Prof., Dir. Zool. Mus. u. Inst., Heidelberg. Zool.

Carrière, Dr. Justus A. v., Prof., Samlystr. 1, Strassburg. Histol., Planaria Emb.

naria, Emb.
Carus, Jul. Victor, M.D., Ph.D., D.C.L., Professor Universität, Gellert-

strasse 7, Leipzig. Zool., Comp. Anat. Chauvin, Fräulein, Marie von, Freiburg in Breisgau. Zool., Gen. Biol.,

Chauvin, Fräulein, Marie von, Freiburg in Brcisgau. Zool., Gen. Biol., Ent., Neuropt. C.
Chun, Carl, Prof. der Zool., Zool. Inst., Breslau. Zool., Gen. Biol., Morphol., Emb., Anat., Histol., Articulates, Cælenterata.\*
Clessin, S., Ochschfurt. Moll.
Cohen, Prof. Dr. Emil, Univ., Greifswald. Min., Petrog.\*
Cohn, Dr. F., Königsberg. Ast.
Cohn, Dr. Ferdin, Prof. ord., Breslau. Pflanzenphysiol., Infusoria.
Cohn, Hermann, Ph.D., M.D., Prof. Univ., Schweidnitzer-Stadtgraben 24, Breslau. Ophthal., Phys., Elect., Hygiene.
Collin, Anton. Dr. Phil., Assist. am Mus. für Naturkunde, Berlin, N., Invaliden Str. 43. Geog. Dist., Invert., Worms.\*
Conwentz, Prof. Dr. H., Director des West Prcuss. Provinzial Museums, Danzig. Vea. Palzo., Bot.\*

Danzig. Veg. Palæo., Bot.\*
Cornelius, Prof. Dr. Carl Schastian, Halle (Saxony). Physics, Elect.,

Meteo.\*

Credner, Prof. Hermann, Prof. d. Palæo., Leipzig. Credner, Rud., Ph.D., Präs. d. Geog. Gesellsch., Prof. Univ., Greifswald. Geog.\*

Czapski, Siegfried, Dr. Phil., Jena, Zeissplatz 5. Physics (Optics).\* Czeczorzinski, Adolf, Göggingerstr. 11, Augsburg. Lepid. and Hymen-

Czwalina, Gustav, Königsberg, Lobeckstr. 23. Dipt., Coleopt. Dælen, R. M., Civil-Ingenieur, Düsseldorf, Kurfurstenstr. 7.

Dahl, Dr. Friedrich, Zool. Inst., Kiel. Zool., Geog. Dist., Ent., Arach., Crust.\*

Dammer, Udo. Dr. Phil., Assist. Royal Botanic Muscum, Friedenau-Berliu, Handjery Str. 76. Bot: Phæn. Plants, Ferns, Hort., Veg. Biol., Morphol. Hort. Exper. Station Herbarium. Ex. Daniel, Joseph, Chemiker, Reichertshofen (Bayern). Ent. (Coleopt).

Daniel, Karl, Munich, Dachauerstr. 4, I. Chem., Ent., Coleopt. C. Ex. Daub, Martin, Karlsruhe, Baden. Macro-lepid.
Davidoff, Dr. M., Nymptenburgerstrasse 108, München. Morphol., Vert.

Ascidians.\*

Debcs, Eduard, Leipzig, Gottschedstrasse. Diatoms.

Decker, Friedrich, Dr. Med., München. Anat.\* Deecke, Dr. Wilhelm, Univ., Greifswald. Geol., Palæo.\* Deichmuller, Dr. Friedrich, Bonn a. Rhein. Ast.

Deichmüller, Dr. J. V., Directorial-Asst. am k. Min. Mus., Dresden. Palæo. u. Præhist.\*

Delffs, Prof. Dr. Wilhelm, Univ., Heidelberg. Chem.\*

Denekmann, August, Dr. Phil., Berlin, N., Invalidenstr. 44. Invert. Palæo., Strat. Geol. C.

Deneke, H., Göttingen, Gronerthorstr. 19. Coleopt.

De Rossi, Gustav, Postverwalter, Neviges bei Elberfeld. Phæn. Bot.,
Ferns, Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt.,
Neuropt. C. Ex.

Detmer, Dr. Wilhelm, Prof. an der Univ., Jena.
Dieck, Dr. Georg, Dr. Phil. u. Dir. des deutschen Nat. Arboretum, Zoc-

schen, Kreis Merseburg. Bot: Hort., Arch., Coleopt. C. Ex. Dieckmann, H. Wilh., jr., Ferdinandstrasse 46, Hamburg. Lepid. C. (ot

Lepid, esp. of East Siberia). Ex.

Diels, Prof. Dr. Hermann, Magdeburgerstr. 20, Berlin W. Philos.\* Dietel, Paul, Ph.D., Leipzig, Hohe Str. 43, I. Myol. C. Ex. Dilthey, Prof. Dr. Wm., Burggrafenstr. 4, Berlin, W. Philos.
Disqué, Heinrich, Speier a. Rh. Lepid. C. Micro-Lepid. Ex.\*
Doebner, Prof. O.. Royal Univ., Halle a. S. Chem.

Doederlein, Ludwig, Ph D., Prof., Strassburg i. E. Gen. Biol., Geog. Dist., Fossil Vert., Ichth., Echinoid., Sponges. C.\*

Dohrn, Dr. C. A., Pres. der Ent. Vereeniging te Stettin, Prussia.
Dothe, E., Landesgeologe Dr., Berlin, N., Invalidenstr. 44, Königliehe
Geologische Landesanstalt n. Bergakademie. Lithol.

Dreehsler, Prof. Dr. G., Univ., Göttingen. Agric.

Dreher, Eugen, Dr. d. Philos., Dozent a. d. Univ., Halle, Berlin, W.,
Linkstrasse 18. II. Chem., Phys., Anth.\*

Dresler. Ernst Friedrich, Lowenberg. Phen. Plants, Ferns, Mosses,
Fungi, Lichens, Paleco., Min. C. Ex.

Dreyfus, Ludwig, Ph.D., 44 Frankfurter Str., Wiesbaden. Zool.

Driesch, Dr. Hans, Care of Prof. E. Haeckel, Jena.

Dr. Roje, Roymond. Ernil Heinrich, Pacef Physiol. Univ. Roylin. Pick.

Du Bois-Reymond, Emil Heinrich, Prof. Physiol., Univ., Berlin. Biol., Physiol.

Dueberg, H., C. E., Kesselstr. 7, Berlin. Ent., Lepid. C. Ex. Dürer, M., Roselstr., Frankfurt a. M. Deutsche Flora.

Ebbinghaus, Prof. Dr. Hermann, Schillstr. 10, Berlin, W. 62. Psychol.\* Ebermayer, Dr. E., Prof. a. d. Univ., München. Bot., Lithol., Agric.

Chem., Meteo. Ebert, Dr. Hermann, Privat-Docent, Universität, Erlangen.\*

Ebert, Dr. Th., Bezirksgeologe, n. Doeent a. d. Bergacademie Archivar d. Deutsch Geol. Ges., Berlin, N., Invalidenstr. 44, Königliehe geologische Landesanstalt. u. Bergakademie. Invert. Palæo., Strat. Geol.\*

Ebert, Wilhelm, Rogenhausen near Munich. Ast.
Eberth, Carl T., Prof. Dr. Med., Geh. Medzinalrath, Halle a. S.,
Mühleweg 6. Mic., Zool., Anat. C.\*
Eek, Prof. Dr., Min. Mus. am Polytech., Stuttgart.
Eeker, Alex., Dir. Anat. Anstalt, Freiburg.
Eekhard, Prof. C., Prof. Physiol., Giessen. Physiol., Hum. Emb.

Eekstein, Dr. K., Privat-Doeent, Forstakademie, Eberswalde. Forstzool.\*

Edelmann, Dr. Max Thomas, Privat-Docent der technischen Hochschule, Munich. Phys.

Edinger, Dr. L., Gärtnerweg 20, Frankfurt a. M. Emb., Vert. Anat., Histol.\*

Ehlers, Ernst Heinrich, Prof. der Zool. u. vergl. Anat., Dir. des Zool.-

Zootom. Inst., Göttingen. Bibliog., Zool., Vert., Invert. C. Ex.\* Eiffinger, Georg, Frankfurt a. M. Lepid.\* Eimer, G. H. Theodor, Dr. Med., Phil., Prof. der Zool. u. vergl. Anat. a. d. Univ., Tübingen. Zool., Gen. Biol., Morphol., Invert.

Anat., Vert., Mammals, Orn., Herpetol., Histol., Lepid., Radiates,

Elbs, Karl, Dr. Phil., Prof. Chem., Freiburg, i. B. Org. Chem.\*

Emmerling, Prof. Dr. Adolf, Bergstrasse 8, Kiel. Agric. and Physiol. Chem.

Endres, E., Bot. Gart. des Polytechnikum, Karlsruhe i. B. Hort.

Engel, Dr. Franz, Invalidenstr. 42, Berlin, N. Bot., Ethnog.\*

Engelhardt, Dr. B. von, Dresden. Ast.

Engler, Adolf, Prof., Dr., Dir. des Kgl. Botan. Gartens u. Museums, Berlin, W., Postdamer Str. 75.

Erdmann, Hugo, Dr., Halle a. S., Friedrichstr. 52. Chem. C. Ex.\* Eucken, Rudolf, Prof. der Philos., Jena. Philos., Geschichte der Begriffe, Terminologie.\*

Eulenberg, Dr. Albert, Prof. a. d. Univ., Berlin. Nervous diseases.\*

Eyrich, Dr., Mannheim. Coleopt., Hymenopt.

Fabian, Waldemar, Tarnowitz. Bot.

Feddersen, Dr. Berend Wilhelm, Carolinenstrasse 9, Leipzig. Physical Sciences, especially Elect \*

Felix, Dr. J., a. o. Prof. a. d. Universität, 3 Gellertstrasse, Leipzig. Geol., Veg. Palæo.\*

Feuerstacke, R., Lehrer, Magdeburg, Breiteweg 107. Coleopt.

Fick, Dr. A. E., Prosektor, Anat. Anstalt. Würzburg.

Fickert, Dr. K., Asst. Zool., vergl. Anat. Anstalt, Tübingen. Fiet, A., Hortulanus ann de Rijks-Universiteit te Groningen en Redacteur

van "Floralia." Bot: Phæn. u. Crypt. Plants, Ferns, Hort. La collection de plantes du Jardin Botanique de l'Etat (Rijks Univ.). Ex.\*

Fietz, Carl, Kreis-Schulinspector a. D., Steinau a. d. Oder. Phan. Plants, Moll. C. Ex.\* Fimm, Dr. R., Würzburg, care of Prof. Semper.

Fingerling, Max, Leipzig. Lepid.

Finkler, D., Prof. Agric. Acad., Poppelsdorf bei Bonn. Physiol. Finsch, Otto, Dr. Phil., Delmenhorst (near Bremen), Oldenburg. Anth., Eth., Orn \*

Fischer, His Excellency Prof. Dr. Kuno, Rohrbachstr. 12, Heidelberg. Philos.

Fischer, Theobald, Prof. der Geog. an der Univ., Marburg i. H. Phys.

Geol., Physics, Meteo., Geog. Dist.\*
Fischer-Benzon, R., Prof., Dr., Kiel. Geol., Phys.
Fittica. Dr. Friedrich Bernhard, Cor. Memb. N.Y. Acad. Sci., Prof. a. d. Universität, Marburg (Marburg on-the-Lahn). Chem.\* Flechsig, Prof. Paul, Med. Fac., Univ., Leipzig.

Fleischer, Carl, Wilischthal in Sachsen. Lepid.

Fleischmann, Dr. A., Privat Docent Zool. Inst., Erlangen. Lamellibr., Ontogeny, Vert.\*

Flemming, Walter, Prof., Dr., Dir. Anatom. Inst., Kiel, Düsternbrook 55.

Gen. Biol., Emb., Anat., Histol. C. Mic.
Flesch, Prof. Dr. Max, Frankfurt a. M.
Flögel, Dr. T. H. L., Wedel, Holstein. Zool.
Focke, Dr. Wilh. Olbers, Stein. Kreuz 2, a. Bremen. Bot. Rosaceæ, esp.
Rubus, Hybridization. C. Ex.\*
Foerster, Wilhelm, Dr. Phil., Prof. der Ast., u. Dir. der Royal Observ.,

Foerster, Wilhelm, Dr. Phil., Prof. der Ast., u. Dir. der Royal Observ., Berlin, S.W. Ast.
Follman, Dr. O., Coblentz. Palæo.
Fraas, Eberhard, Dr. Phil., Assist. am Kgl. Nat. Cab., Stuttgart, Würtemberg. Vert. Palæo., Strat. Geol., Min. C. Ex.\*
Fraas, Oscar, Stuttgart. Vert. Palæo.
Farisse, Dr., Med. et Phil., Prof. der Univ., Leipzig. Morphol., Emb., Wistal.

Histol.\*

Frank, Adolf, Erfurt, Fischersand 4. Hymenopt., Dipt., Hemipt. C. Ex. Frankenstein und Wagner, Verlag der "Insektenbörse," Leipzig. Augustusplatz 1.\*

Frant, Dr. Bernhard, Prof. Landw. Hochschule, Berlin, N.W., Thurmstr. 3. Bot., Fungi., Gen. Biol. Freeh, Prof. Dr. F., Bendlerstr. 10, Berlin, W.

Freese, Dr. W., Hamburg.

Frenzel, Johannes, Dr., Prof., Dir. der Biol. Station Mueggelsee, Friedrichshagen bei Berlin. Mic., Zool., Gen. Biol., Morphol., Emb., Anat., Histol., Protozoa.\*

Fresenius, Dr. Carl Remigius, Geheimer Hofrath u. Prof. Director des

Chemisehen Laboratoriums, Wiesbaden. Inorg., Tech. and Analyt.

Chem.\*

Fresenius, Prof. Heinrich, Ph.D., Vorsteber d. agrieulturchem. Versuchsstation; Docent, Chemical Laboratory, Wiesbaden. Agric. Chem.\*

Fresenius, Wilhelm, Dr. Phil., Docent n. Abtheilungsvorstand am Laborat. Fresenius, Wiesbaden, Kapellenstr. 57. Analyt. u. Inorg. Chem.,

Frieke, Dr. Carl W., Doeent, Univ., Kiel. Mic., Odontol.

Friederichsen, L., Generalsecretair der Geographischen Gesellschaft, Neuerwall, 61, I., Hamburg. Geog., Cortog., Navigation.\* Friedlander, Dr. Benedict, Regentenstr. 8, Berlin, W. Histol.\*

Friedrander, Dr. Benedict, Regentenstr. 8, Berlin, W. Histol.\*
Friedrich, O., Cothen, Wollstr. 2. Coleopt.
Friese, H., Oppenau (Baden). Zool., Gen. Biol., Geog. Dist., Ent., Hymenopt., Coleopt. C. Ex.
Friren, (l'abbé), Prof. Seminaire, Montigny-Metz (Alsaee-Lorraine).
Bot., Palæo. C. Ex.\*
Fritsch, Gustav, Dr. Med., Berlin, N.W., Roonstr. 10. Mic., Photog.,
Zool., Emb., Anat., Anth., Eth., Ichthyol., Histol. Ent., Coleopt.,
Worms. Worms.

Fritsehe, Friedrich Carl, Faucha Leipzig. Orn., Tax., Lepid.

Frommann, —, Jena. Mic., Histol. C. Fromme, Prof. C., Univ., Giessen. Magnetism, Galvanism.

Froriep, Dr. August, Prof., Univ., Tübingen. Histol. of Vert., Emb. and Anat. of Vert.\*

Fruhstorfer, H., Naturalist, Passau, Bavaria.

Fuchs, Dr. Ernst, Director der Landwirthschaftlichen Schule, Kappeln (Schleswig-Holstein). Analyt. Chem. and Bot. C. erogams and Mushrooms.\*

Fünfstlick, Moritz, Dr. Phil., Stuttgart, Schickstr. 4.

Plants, Fungi, Lichens, Mic. C. Lichens. Ex. Bot: Crupt.

Fürbringer, Max, Prof. Anat. Anstalt, Jena. Vert., Lepid.\* Gabriel, Dr. B., Docent Univ., Breslau. Gagel, Curt, Dr., Berlin, N., Invalidenstr. 44. Invert. Polæo., Strat. Geol.

Galle, Prof. Dr. J. G., Königl. Univ., Breslau. Ast.\*

Gallenmuller, Prof. J., Würzburg. Ast. Gantzer, Herm., Dessau, Amalienstr. 118. Cerambycidæ, Photog.\*

Garcke, Dr. August, Prof. an der Universität und Custos am Königl. Botanischen Mus., Gneisenaustr. 20, Berlin. *Pharmac.*, Bot.\*

Gasser, Dr. Emil, Dir. Anat. Inst., Marburg. Histol., Emb. Vert. Gatterman, Prof. Dr. L., Chem. Lab. der Univ., Heidelberg. Gaupp, Ernst, Dr. Med., Breslau, Anat. Inst. Emb., Vert. Anat., Histol.\* Gegenbaur, Carl, Leopoldstr. 57, Heidelberg. Geiger, C., Stadtpfleger, Ulm a. Donan. Lepid., Dipt., Coleopt.

Geinitz, Dr. E., Prof. ord. d. Min. u. Palæo., Rostock. Geinitz, Prof. Dr. Hans Bruno, Dir. der K. Min. Mus., Dresden.

Geisenheyner, Gymnasial-lehrer, Krenznach a. Nahe. Bot.

Geissler, Max, Dir. des botan. Gartens, Gærlitz, Schlesien, Mühlweg 3.

Phæn. Plants. Herbar. Ex.
Gericke, Hugo, Langenbrück, Breslau. Zool., Orn., Ent., Hymenopt.,
Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach. C.

Gerlach, Joseph v., M.D., Prof. Anat., Univ., Erlangen. Mic., Photog., Anat.

Gerlach, Prof. Dr. Leo, Erlangen. Ent., Vert. Gersdorf, Theodor, Modellor of the Royal Saxon Mining Acad., Freiburg.

Gerstaecker, Dr. A., Prof. ord., Dir. Zool. Inst., Greifswald. Anthrop. Getschmann, R., Hermannstr. 170, Rixdorf near Berlin. Diatoms. C.

Giesenhagen, Karl, Privat-docent der Bot., Kustos am Kryptogamen Herbar, und Assist. am pflanzenphysiol. Inst., München, Theresienstr. 122, I. Bot: Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Algα, Desmids, Diatoms, Gen. Biol.

Gizycki, Prof. Dr. Georg von., Nettelbeckstr. 24, Berlin, W. Anth. Orn.\* Glassner, G., Dr. Phil., Pharmaccutischer Verlag, Inhaber Apotheker Carl Muller, Cassel, Grosse Rosenstr. 2. Signaturen für Apotheken

Carl Muller, Cassel, Grosse Rosenstr. 2. Signaturen für Apotheken u. Droguerien in verschiedenen. C. Ex. Goebel, Prof. Dr. K., München, Leopoldstr. 33. Bot.\* Goette, Alex., Dir. Zool. Inst., Rostock. Emb., Vert., Invert. Goldfuss, August, Berlin, C, Linienstr. 46. Europ. Coleopt. C. Ex. Goldschmidt, Prof. V., Sophienstr. 3, Heidelberg. Crystall.\* Goppelsroeder, Prof. Dr. Friedrich, Mühlhausen, Elsace. Capillar analyse, Electro Chem., Chem. of Foods, Hygiene, Cremation.\*

Götschmann, Dr., Breslau, Rosenthalerstr. 18. Lepid. Gottsche, Carl, Dr., Phil., Keeper Min. Dept., Naturhist Mus., Hamburg. Palæo., Geol.\*

Graeser, Louis, Assist. Nat. Hist. Mus., Hamburg, Hansaplatz 12, IV.

Craetz, Louis, Assist. Nat. Hist. Mus., Hamburg, Hansapiatz 12, 1V. Lepid., Moll. C. Ex.\*

Graetz, Dr., Prof. a. d. Univ., München. Phys.\*

Grave, Dr. Otto, Coblenzerstr. 121, Bonn. Chem., Min.\*

Grebe, Landesgeologe, Berlin, N. Invalidenstr. 44, Königliche geologische Landesanstalt n. Bergakademie. Strat. Geol.

Grebe, Carl, Königl. Oberförster, Bredelar, Westfalen. Bot., Mosses. Offers Muscos germanicos. C. Ex.

Greeff, Dr. Richard, Prof., Dir. Zool. Inst., Marburg. Zool., Anat., In-

Grenacher, Prof. Herm., Halle a. S. Zool.

Griebel, Julius, Speier. European Macro-Lepid. C. Ex.\* Griesbach, Hermann A., M.D., Ph.D., Prof., Mühlhausen (Alsatia). Histol.,

Hist., Mic., Tech.\* Gronen, Damian, Köln a. d. Rhein. Bot., Bibliog., Zool., Orn., Ethnog.\* Gruber, Prof. Dr. August, Freiburg i. B. Invert., Zool., Gen., Biol., Protozoa, Infusoria.\*

Grunack, Albert, Kaiserl. Geheimer Registrator, Berlin, S.W., Neuen burgr Str. 29. Bot., Zool., Orn., Ool., Ent., Lepid., Coleopt. C.

Grundey, Max, Augustastr. 14, Breslau. Min., Crystall., Geol., Arch. C. Ex.\*

Gründler, Hans, M.D., Dresden, A. Comeniusstr. 31. Diatoms, Mic., Photog. C. Ex.\*

Gruner, Hans, Dr. Phil, Prof. der Min., Geol. u. Bodenkunde a. d. Kgl. Landw. Hochschule, Berlin, N.W., Platz am Neuen Thor I. a. Palæo., Geol., Min. C. Ex.\* Grützner, Hermann, Rector, Grottkau in Schlesien. Ool., Lepid., Coleopt.

C. Ex.
Gümbel, W. v., Prof. and Dir. Geol. Survey of Bavaria, Munich. Geol. Gumppenberg-Pöttmes, Karl Freiherr v., Bamberg. Lepid. C. Ex.\* Gürich, Dr. Georg, Privat-Docent a. d. Univ., Breslau, Höfohenstr. 72. Palæo., Geol., Min., Lithol.\*

Gürke, Dr. Max, Kustos am Kgl. Botan. Garten zu Berlin, 67 Colonnenstr., Schöneberg bei Berlin. Bot: Phan. Plants.\*

Haacke, Wilhelm, Dr., Technische Hochschule, Darmstadt. Gen. Biol., Zool., Palæo., Geog. Dist., Morphol., Emb., Anat., Mammals, Orn., Radiates, Protozoa, Histol., Mic.\*
Haas, H., Dr. Phil., u. Prof. an der k. Univ., Kicl, Niemansweg. 14.

Geol. C. Ex. Hasse, Dr. Erich, Privat-Docent Zool. an der Univ., Königsberg, und Dir. der R. Siamese Mus., Bangkok, Siam. Zool., Biol., Morphol., Insects, Myriop.\*

Häcker, Dr. Valentin, Asst. Zool. Inst., Freiburg.

Haeckel, Ernst H., Prof., Jena. Zool.\*

Haefar, Dr., Bezirksgeologe, Berlin, N., Invalidenstr. 44, Königliche geologische Landesanstalt u. Bergakademie. Strat. Geol.

Haeoker, Val., Dr. Phil., Assistent am Zool. Inst., Freiburg i. B. Zool., Orn.

Hagenbeck, Christiane, Vogelgrosshandlung, St. Pauli, Hamburg.

Hahn, H., Dreiengelstr. 9, Conservator des Ent. Mus., Magdeburg. Coleopt. Halfar, Anton, Kgl. Bczirks-Geolog., Bcrlin., N., Invalidenstr. 121, III.

Strat. Geol., Invert. Paleo.
Hall, W. S., M.S., M.D., at present, Strassburg. Physiol.\*
Hallwachs, Dr. Wilhelm, Prof. d. Elektrotechnik. technische Hochschule, Dresden. Physics.\*

Halm, Dr. J., Strassburg. Ast. Hamann, Otto, Dr., Prof., Göttingen. Hydroids, Echinod., Worms.\* Harrach, Graf Ernst, Kl. Kirchen, bei Lüben. Agric., Mic., Zool., Orn.,

Ent: Coleopt. C. Hartig, Dr. Robert, Universitäts Prof. ordin. und Vorstand des Forstbotanischen Instituts, Georgenstr. 13, München. Anat., Physiol. and Pathol. of Plants.

Hartmann, R., Märjen b. Zeulenroda, Reus. ält. Linic. Bot., Qrn., Ent., Lepid., Coleopt. C. Ex.

Hartwich, Carl, Braunschweig. Phan. Bot., Mic., Anth. C. Ex.

Harzer, Prof. Paul, Gotha. Ast. Hasse, Carl, Prof. Dr., Breslau. Vert. Palæo., Mic., Zool., Gen. Biol., Geog. Dist., Morphol., Emb., Vert. Anat., Arch. C. Ex.\*

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Haupt, Dr. W. Albert, Chemnitz. Bacteriol.\*

Hauptfleisch, Dr. P., Privat-Docent der Bot., Greifswald. Bot: Alga,

Desmids, Diatoms.\*

Hauser, Friedrich, Premier Lieutenant im R. C. 1. Fuss-Artillerie Regiment, "vac. Bothmer," Ingolstadt. Coleopt., Spec: Fauna of Central Asia and Siberia, Geol. Biol., Ent. C. Many duplicates for Ex.

Hauser, Gustav, Privat-Docent, Erlangen. Organs of smell in Insects. Haushofer, Prof. Dr., Mineral Mus. am Polytechnicum, München. Haussknecht, Carl, Prot., Weimar, Schillerstr. 9. Bot: Phen. and Crypt.

Plants, Ferns, Mosses, Fungi, Lichens, Algæ. C. Ex.

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Heidenhain, Dr. Martin, Anat. Inst., Würzburg.

Heidenhain, Prof. R. P., Prof. d. Physiol., Univ., Breslau. Heider, Karl, Dr. Mcd. ct Phil., Berlin, N. W., Birkenstrasse 75. Zool., Emb.\*

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Freiberg. Min. Heller, Prof. Dr. Arnold, Kiel. Mic., Gen. Biol., Histol. of Vert., Arach., Worms, Pathol.

Heller, Dr. K. M., Custos K. Zool. u. Anth.-Ethnog. Mus., Dresden. Ent. C.\*

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Hellvig, Theodor, Grünberg in Schlesien, Lehrer, corr. Mitglied der

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Helm, Otto, Danzig. Amber and other fossils. C. Ex. Helmert, Robert, Prof., Dir. des Königl. Preussischen Geodetischen Inst., Potsdam bei Berlin. Ast., Geodesy.\*

Helmholtz, Prof. Dr. Hermann von, Neue Wilhelmstr. 16, Berlin, N. W.

Physics. Henking, Hermann, Dr. Phil., Privat-Docent, Zool.-zootom. Inst., Göttingen. Palæo., Zool., Gen. Biol., Geog. Dist., Morphol., Emb., Anat., Anth., Eth., Ethnog., Histol., Arach.
Henneberg, Prof. Dr. W., Göttingen. Agric., Chem.
Hennig, R., Telegraphenbetriebs-Burcau, Reichs-Postamt, II. Abtheilung,

Berlin, W. Creindelidæ, Large Carabidæ.

Hensen, Victor, Prof., Physiol. Inst., Univ., Kiel. Physiol., Gen. Biol.,

Hering, Major Ed., Paradcplatz 37, Stettin. Ent.

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Hessenauer, Ch., Niederbronn. Coleopt., Lepid.
Heyer, Dr. Friedrich, Docent a. d. Univ., Halle a. S. Bot: Phæn. Plants,

Hort.

Heyne, Ernst, Hospitalstr. 2, Leipzig. Lepid. and Coleopt., Ent. Utensilien, Ent. Buchhandlung.\*

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Hintz, Ernst, Dr. Phil., Docent u. Abtheilungsvorstand am Laborat. Fresenius, Wiesbaden, Nerobergstr. 24. Chem.\*

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Hirn, Gustave Adolph, boulevard du Hohlandsberg 10, Colmar (Alsace).

Philos., Phys. and Mechanism.
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burg. Fungi, Mic., Zool., Ent., Lepid. C. Ex.\*

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Hort. C. Ex.
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Holtz, W., Ph.D., a. o. Prof. an der Univ., Greifswald. Phys.

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Jost, Dr. Ludwig, Privat-docent d. Bot., Botan. Inst., Strassburg i.

Junghans, Karl, Oberlehrer an der Realschule I., Grüner Weg 26, Cassel. Orn., Ool.\*

Kabis, G., Karlsruhe, Baden. Lepid.

Kaeseberg, C., Langerfeld bei Schwelm. Coleopt., Lepid.
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Kaiser, Paul, Nordhausen. Bot., Ferns, Hort. C. Ex.\*
Karsch, Dr. A., Prof. ord. Bot. u. Zool., a. d. Akad., Münster i. N. Ent.
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spec. Buprestidæ. C. Ex.\*

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Emb., Vert. Palæo., Mic., Photog., Gen. Biol., Morphol., Vert.

Anat., Anth., Vert., Mammals, Osteol., Myol., Histol.

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Kerl, Prof. B., Geh. Bergrath, Bergakademie, Wichmannstrasse 1, Berlin,

W. Chem., Meteo.\*

Kern, Friedrich, Breslau, Losehstr. 25. Mosses. C. Ex.

Kesster, Prof. Dr., Kassel. Aphidæ.

Kiel, Wilhelm, Berlin, O., Raupach Str. 15. Bot: Phæn. and Crypt.

Plants, Ferns, Mosses. Lichens, Algæ, Mic. C. Ex.

Kinkelin, Dr. F., Stauffenstr. 2, Frankfort-on-Main. Geol., Palæo.\*

Kinzel, Dr. W., Berlin, N., Mullerstr. 179a, I. Bot: Phæn. and Crypt.

Plants, Org. Chem., Philol. C.

Kirchner, Oskar, Prof., Dr., Hohenheim bei Stuttgart. Bot., Algæ.

Kitt, Theodore, München.

Kittlitz, Fritz von. Musikalienhaudlung. Mainz. Lenid.

Kittlitz, Fritz von, Musikalienhandlung, Mainz. Lepid.

Klaatsch, Hermann, Asst. Anat. Inst., Heidelberg. Hydroids.

Klatt, Frd. Wilhelm, Eimsbüttel, Bismarckstrasse 46, I, Hamburg. Bot., Compositæ, Trideæ.\*

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Fungi, Plants' diseases, Algæ; Mic.\*
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Topography of the upper surface of the moon.\*
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Kneucker, Audreas, Karlsruhe in Baden, Werderplatz 46, III. *Phæn. Plants: Cyperaceæ*. C. Ex. Knoblanch, Prof. Dr. Carl Hermann, Geheimer Regierungsrath, Präs. d.

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Knorre, Prof. V., Berlin. Ast. Knuth, Paul, Dr. Phil, Oberlehrer, Kiel. Phæn. Plants, Photog. C.\* Kny, Dr. Leopold, Prof. a. d. Univ. und Landwirthsch. Hochschule, 92-93 Kaiser-Allee, Wilmersdorf bei Berlin. Bot., Bot. Physiol.\* Kobbe, Otto, Bingen a. Rhein, Hessen. Bot: Phan. and Crypt. Plants.

C. Ex.

Kobelt, Dr. Wm., Schwanheim a. M. Moll.

Kobold, Dr. H., Strassburg. Ast.

Koch, Dr., Bezirksgeologe, Berlin, N., Invalidenstr. 44, Königl. geolog. Landesanstalt u. Bergakademie. Lithol.

Koch, Glatz. Coleopt., Lepid.
Koch, Gottlieb von, Dr. Prof., Darmstadt. Develop. and Anat. of Corals.\*
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Koehne, Prof. Emil, Ph.D., Friedenau b. Berlin, Kirchstr. 5. Hort.,
Dendrology. Determines Lythracæ. Accepts literature for "Just's
Botanischen Jahresbericht."\*
Koenika E. Lehen. Programment Angel. Heiden.

Koenike, F., Lehrer, Bremen. Arach., Hydrach.\* Kohl, Dr. Carl, Zool. Inst., Leipzig. Blind Animals. Kohl, Friedrich G., Dr. Phil., Prof. der Bot., Marburg i. Hessen, Renthof 12. Bot: Phæn. and Crypt. Plants, Fungi, Algæ, Mic., Photog. Herbarium. Ex.\*

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Kölliker, Albert v., Dir. vergl. Anat. u. Emb. Inst., Wurzburg. Histol., Emb., Vert.

Koltze, W., Gertrudenstr. 11, Hamburg. European Coleopt.

König, Walter, Dr. Phil, Prof., Frankfurt a. M., Adlerflychstr. 11., III.

Physics, Elect., Meteo.\*

Könike, Dr., Fr., Bremen. Hydrachmidæ. Konow, Fr. W., Pastor, Teschendorf bei Stargard i. M., Mecklenburg. Bot., Con., Min., Ent: esp. Hymenopt., Tenthredinidæ. Ex.\* Koopmann, Karl. Inspector u. Lehrer des Gartenbaus der Kön. Gärtner-

Lehranstalt, Wildpark b. Berlin. Bot., Hort., Dendrol.\* Korschelt, Dr. Eugen, Zool. Inst., Univ., Marbürg, i. H. Zool., Emb.\*

Korschelt, Paul, Dr. Phil., Zittau, Sachsen. Bot. C. Kosmann, Bernhard, Dr. Phil., Kgl. Bergmeister, Charlottenburg, Berlin, Joachims. Th. Str. 3. Strat. Geol., Min., Inorg. Chem., Metall., Mic. C. Ex.\*

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Kraatz, Dr., Berlin, Linkstr. 28. Ent.

Kraatz, Dr., Berin, Linkstr. 28. Ent.
Kraatz, A. von, Wiesbaden. Coleopt. (Carabicinen, Cicindelen).
Kraatz, Gustav, Dr. Phil., Präsident der deutschen Entomol. Gesellschaft, Linkstr. 28, Berlin. Ent., Coleopt.
Kracpelin, Prof. Dr. E., Univ., Heidelberg. Psychol.
Kraepelin, Prof. Dr. Karl., Dir. Zool. Mus., Hamburg. Zool.\*
Kraetzer, Dr. J., Mem. Malacozool. Gesell., Frankfort a. Mr., Liebigstrasse 37. Bot., Palæo., Geol., Min., Moll. C. Ex. Recent and fossil Moll., the latter particularly from the Alpine Triassic, Cretaceous and Tertiary formations.\* and Tertiary formations.

Krancher, Dr. Paul Oscar, Dir., Leipzig, Grassistr. 11, III. Editor of the Entomological Journal "Calendar for all Insect Collectors." Zool.

Ent., Hymen., Lepid., Coleopt. C. Ex.\*

Krantz, Dr. August, Rheinisches Mineralien-Comptoir, Coblenzerstrasse 121, Bonn. Min., Palæo., Petrog. C. Ex. minerals and fossils.

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Krause, Wilhelm, Prof., Berlin, I., Anat. Institut. Anat.\*
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Kreutz, Prof. S., Mineral. Mus. d. Univ., Krakau. Min.
Kreye, Hermann, Hannover. Zool., Orn., Tax., Lepid. C. Ex.\*
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Kühne, W., Prof. d. Physiol., Heidelberg.

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Lang, Georg, Bayreuth. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. Forest Ent. collections and Biol. objects, of all orders of insects, dried and in spirits.

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Chem.

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Bot: Phan. Plants, Hort., Ent., Flora von New Guinea (Papuasia). C. Ex.\*

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Lent, Dr. Carl, Geol. Inst., Freiburg i. B. Geol.

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Lerscht, E., Apothecary, Naunhof, Saxony. Coleopt.

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Liebe, Dr. Th., Kurassierstr. 2, Berlin, S.W. Bot.
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Limpricht, Heinrich, Prof., Greifswald. Chem.
Linck, Gottlob, Dr. Phil., Privat-docent, Dietrichstaden 5, Strassburg.

Min., Crystall., Lithol.\*

Lindau, Dr. Gustav, Assist. am Kgl. Botan. Garten, Berlin, W., Potsdamerstr. 75. Bot. (Corroloba, Acanth., Pilze).

Lindley, W. H., Civil Engineer, Blittersdorffsplatz 29, Frankfort-on-Main.

Sanitary Hydraulic Electrical Engineering.

Lindner, Dr., Generalarzt, Kassel. Worms, Mic., Protozoa.\* Lindner, Paul, Dr. Phil., Vorstand der Bacteriol. Abtheilung am Inst. für Gährungsgewerbe, Berlin, N. Fungi, Gährungs organismen. C. Ex.\*

Linnaea Institution for Nat. Hist. (Dr. Aug. Müller), Berlin, Louisenplatz 6. Large stock of Nat. Hist. objects. Catalogues sent free on application.

Linstow, Dr. O. von, Göttingen, Weenderstrasse 39. Vermes.\*

List, Dr. E., Prof. an der Kgl. Industrieschule, München. Chem., Ono-

logy.\*
Littke, Herrmann, Naturalist, Breslau, Vorwerks Str. 14. Ent., Lepid.,

Little, Herrmann, Naturalist, Breslau, Vorwerks Str. 14. Ent., Lepla., Coleopt. C. Ex.
Löden, Heinrich, Kiel, Ringstr. Coleopt. C. Ex.\*
Loeb, Dr. Jacques, Asst. Physiol. Inst., Strassburg.
Loesener, Theodor, Dr. Phil., Berlin, W., Botan. Mus. Phæn. Plants.
Lohmann, Dr. Hans, Kiel, Zoolog. Inst. Zool.\*
Lohse, Dr. Oswald, Observator, Königlich Sternwarte, Potsdam. Ast., Photog., Coleopt., Lepid. C. Coleopt., Lepid. Ex.\*
Lommel, Eugen von, Ph.D., Prof. Univ., München. Phys.\*
Long, Dr. R., Med. Rath., Berlin, S.W., Schützenstr. 26. Trichina.
Looss, Dr. A., Privatd. u. Asst. Zool. Inst., Thalstr. 33, Leipzig. Trematod. Anat. matod., Anat.

Loretz, Landesgeologe Dr., Berlin, N., Invalidenstr. 44, Königliche geologische Landesanstalt u. Bergakademie. Strat. Geol.\*
Luckenbach, Dr., Korps-Stabs-Apotheker des 2. Armee-Korps, Stettin.
Bot., Chem.\*

Ludecke, Otto, Ph.D., Prof. der Min., Univ., Halle; Vorsitzender Naturwissenschaftlichen Vereins; Mit-Redakteur der Zeitschrift für Naturwissenschaft. Geol., Min., Crystal., Anth. Buy and sell. Ex. American minerals for old German specimens.

Ludwig, Prof. Dr. Friedrich, Gymnasial-Oberlehrer, Greiz. Bot., Biol.,

Mucol.\*

Ludwig, Hubert, Dr. Phil., Prof. Zool. und vergleichenden Anat., Univ.,
 Bonn am Rhein. Zool., Gen. Biol., Geog. Dist., Emb., Anat.,
 Vert., Mam., Orn., Herpetol., Ichth, Arach., Myriop., Crust.,
 Worms, Moll., Radiates, Sponges, Protozoa, Infusoria. C. Ex.\*

Luther, Robert, Dusseldorf. Ast.
Luther, Wilhelm, Dusseldorf. Ast.
Maas, Dr. Otto, Bismarckstr., Mannheim. Sponges, Radiata (Medusæ).\* Maercker, Max, Dr. Phil., Prof., Halle a. Saale, Landw. Versuchs-station, Karlstrasse 8.

Magnus, Dr. P., Prof. Bot., Univ., Blumeshof 15, Berlin, W. Eot.\*
Maltzan, Baron Hermann von, Händelstr. 14, Berlin. Con., Geog. Dist.

of Animals. C. Ex. Marine Shells.

Mangoldt, Hans von, Prof. a. d. Königl. Technischen Hochschule zu Aachen. Math.\*

Marshall, Dr. Wm., Prof. extr., Leipzig. Sponges, Geog. Dist.

Martens, Dr. E. von., Prof. Zool., 28 Paulstr., Berlin, N.W. Moll.

Martin, E., Med. Dr., Anat. Inst., Marburg.

Martin, Dr. Götz Univ. Ronn. Psychol.

Martius, Dr. Götz, Univ., Bonn. Psychol. Marxen, H., Assist., Physik. Inst., Kiel. Phys., Elect.

Matschie, Paul, Assist. bei der Zool. Sammlung des Königl. Museums für Naturkunde zu Berlin, Invalidenstr. 43, Berlin, N., 4. Mammals, Orn., Herpetol.

Matz, Dr. Albert, Stabs arzt, Steylitz bei Berlin. Bot., Mic., Anth., Arch.,

Eth., Ethnog. Herbar.\* Matzdorff, Carl, Dr. Phil., Müllerstr. 163a, Berlin, N. Zool., Crustacea.\* Mäule, C., Hedelfingen, Wurtemberg. Bot: Lichens, Physics, Mic.

Maurer, Friederich, Prosector Anat. Inst., Heidelberg. Ichth.

Maurer, Friederich, Prosector Anat. Inst., Heidelberg. Lehth.
Maus, Wilhelm, Postsecretair, Wiesbaden. Lepid. C. Ex.
Mayer, Dr. C. E. Lonis, Schützenstr. 73-74, Berlin, S.W. Lepid. C. Ex.
Mayer, W., Apotheker, Tübingen.
Mees, Adolf, Karlsruhe, Baden. Micro-Lepid.
Meier, William, Eichholz 89, I., Hamburg. Coleopt. C. Ex.
Meissner, Prof. G., Prof. Physiol., Göttingen. Physiol., Emb.
Meissner, Maximilian, Dr. Phil., Assist. am Kgl. Zool. Mus., Berlin, N.,
Invalidenstr. 43. Moll., Echinoderms, Bryozoa.\*
Melsheimer, Marcellus, Oberförster, Linz a. Rhein. Bot. Phæn. and
Crymt. Plants. Ferns. Zool. Orn., Hernetol., Lehthyal. C. Ex. Crypt. Plants, Ferns, Zool., Orn., Herpetol., Ichthyol. C. Ex.

Menzel, F., Munich. Ool. Ex. Merkel, Dr. Fried. Siegm., Dir. d. Anat. Inst., Göttingen. Emb., Anat.,

Anthrop.

Messer, C., Reallehrer, Bremen. Bot.\*

Meyer, Arthur, Prof., Dr., Dir. des Botan. Gartens, des botan. u. pharmakognostischen Inst. der Univ., Marburg, Renthofstr. 10. Bot: Phæn. and Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Algæ, Desmids, Diatoms, Hort., Veg. Palæo., Gen. Biol.\*

Meyer, A. B., M.D., königl. sächs. Hofrath, Dir. k. Zool. u. Anth-Ethnog. Mus., Dresden. Ed. "Abh. u. Ber. d. K. Zool. u. Anth-Ethnog. Mus. Dresden." Zool., Vert., Osteol., Anth., Arch., Eth.,

Ethnog. C.\*

Meyer, Dr., Chem. Lab. der Univ., Heidelberg.

Meyer, Prof. Dr. Lothar, Tübingen, Wilhelmstr. 9. Chem.\*

Meyer, Prof. Dr. O. E., Roy. Univ., Breslan. Phys.\*

Mez, Dr. Carl, Wilmersdorfer Weg 4-6, Berlin.

Michaelsen, Dr. Wilhelm, Naturhist. Mus., Hamburg. Worms. Lumbriciden. Ex. Michalke, Carl, Dr., Charlottenburg. Photometry, Elect.\*

Miede, C., Apotheker, Salzderhelden. Bot., Phan. Plants, Ferns, Mosses. Herbarium. Ex.\*

Migula, Dr. Walter, Privat-Docent d. Bot., Karlsruhe, Karl-Wilhelmstr.

12. Bot: Crypt. Plants, Alga, espec. Characea, Bacteria. C. Milch, Ludwig, Dr. Phil., Privat-docent, Tauentzienplatz 12, Breslau (Schlesien). Min., Crystall., Lithol.\*
Mineralien-Niederlage of the Royal Saxon Mining Acad. (II. Zirkeiser, M. E., Faktor), Freiberg. Min., Geol. Purchase, sell and ex. Minerals.\*

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Möbius, Dr. Martin, a. o. Prof., Botan. Institut, Heidelberg. Bot.\*
Modderman, R. S. Tjaden, Prof. State Univ., Groningen. Chem.
Moebius, Carl, Dir. Zool. Mus., Berlin. Zool., Comp. Anat.
Molendo, Ludwig, Redacteur, München. Musci.
Möller, J. D., Präparator für Microscopie, Wedel, Holstein. Diatoms.\*

Möller, Ludwig, Red. von Möllers Deutscher Gärtner-Zeitung, Erfurt, Thüringen. *Phæn. Bot., Fungi, Hort.* C. Ex.

Monke, Dr. Heinrich, Besitzer d. Rheinisches Mineralien-Comtoir Dr. A.

Krantz, Coblenzerstr. 121, Bonn. Palao.

Mueller, Prof. Dr. G. E., Univ., Göttingen. Psychol.\* Muensterberg, Hugo, Prof. der Psychology, Freiburg. Lab. for exper.

Psychol. Mügge, Otto, Prof. a. d. Kön. Akad., Münster, Westfalen. Min., Crystal., Lithol.\*

Muller, Carl, Grosse Rosenstr. 2, Cassel. Org. Chem. Müller, Carl, Hohestr. 33, Leipzig. Diatoms. C. Ex.\* Müller, Carl A. E., Ph.D., Privat-Docent. Assist. am pflanzenphysiol. Inst. der Univ., am Botan. Inst. der kgl. landwirthschaftl. Hochschule, Secretär der Deutschen Botan. Geschellsch., Berlin, N. 59, Eberswalder Str. 29. Bot., Morph., Anat., Physiol., Tech.\*

Müller, Clemens, Dresden. N. A. Coleopt.

Müller, Friedrich, Groner-Chaussee 32, Göttingen a. L. Lepid., Coleopt. C. Ex.

Müller, Gottfried, Dr. Phil., Hülfsgeologe a. d. Kgl. Preuss. Landesanstalt, Berlin, N., Invalidenstr. 44. Invert. Palæo., Strat. Geol.\*
Müller, G. Elias, Prof., Gö<sup>+</sup>tingen. Gen. Biol.

Müller, Gustav, Pastor Emeritus, Frankfurt a. Oder, Bergstr. 54. Lepid., Coleopt. C. Ex.

Müller, Dr. G. W., Greifswald. Ent., Crustacea. Caterpillars in ex. for South American bat. Ostracoda in Ex.\*

Müller-Thurgau, Prof. Dr. Hermann, Geisenheim. Bot.

Münz, Paul, Lehrer, Eltville, Rheingau, Nassau. Bot.\*

Nachfolger, E. Leybold's, Cologne. Chem., Metal., Physics, Elect., Mic., Photog., Meteo., Ast.\*

Nagel, Dr. W., Docent a. d. Univ., Berlin. Emb., Mammals. Nebel, Jr., Gustav, Dessau, Bismarckstr. 37. Coleopt. Ex.\* Nebel, Louis, Lehrer, Bismarckstr. 37, Dessau. Coleopt. C. Ex.\*

Necker, Karl von, Berlin. Ast.

Neesen, Prof. Friedrich, Ziethenstrasse 6 c, Berlin, W. Phys.\*

Nesen, Prof. Friedrich, Ziethenstrasse 6 c, Berlin, W. Land

Nehring, Alfred, Dr. Phil., Prof. der Zool. an der Kgl. Landwirthsch. Hochschule, Berlin, Invalidenstr. 42. Vert. Palæo., Zool., Geog. Dist., Vert. Anat., Anth., Mammals. C.\*

Nehrkorn, Adolph, Oberamtmann, Riddagshansen, near Brunswick. Orn., esp. Ool. C. 3200 species of eggs. Buys, sells and ex. eggs and birdskins from all countries.

Neumann, Emil, Ph.D., Gymnasial lehrer, Neu Ruppin, Prov. Brandenburg. Bot. C. Ex. Neumayer, Prof. Dr. Georg, Geheimer Admiralitäts Rath und Director der Deutschen Seewarte, Hamburg. Geog., Magnetism, Meteo.,

Hydrography.\* Niedenzu, Franz, Dr., Hilfscustos am Botan. Garten, Berlin, W., Botan.

Mus., Grunewaldstr. 6. Bot: Phæn. Plants. C. Ex. Niemann, G., Strassburg i. Els., St. Johannis-Staden 6. Coleopt.

Niepelt, Wilhelm, Naturalist, Freiburg-Zirlau, Preuss. Schlesien. Ent.,

Lepid. C. Ex. Niepraschk, J., Dir. Botanic Gardens, Hort. School and Fresh and Salt Water Aquarium, Cologne. Bot., Phys., Chem., Hort., Meteo., Zool., Min. Herbarium.

Nissen, B. T., Glashüttenstrasse, St. Pauli, Hamburg. Coleopt.\* Nitsche, Hinrich, Prof., Dr. Phil., Tharandt, Saxony. Zool., Bryozoa.

Insects injurious to Vegetation, Pisciculture, Cervida.\*

Insects injurious to Vegetation, Pisciculture, Cervidæ.\*

Nitschmann, Paul, Berlin, N.W., 3 Thumstr. Bot: Phæn. and Crypt.

Plunts, Ferns, Mosses, Fungi, Lichens, Algæ, Desmids, Diatoms,
Palæo., Geol., Min., Crystall., Lithot., Zool., Gen. Biol., Geog.

Dist., Morphol., Emb., Anat., Anth., Vert., Mam., Orn., Ool.,

Herpetol., Ichth., Tax., Osteol., Myol., Histol., Articulates, Ent.,

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Arach., Myriop., Crustacea, Worms, Moll., Radiates, Sponges,

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Noack, Dr. Theophil, Braunschweig. Vert., Palæo., Emb., Zool. C. Ex.

Nolc. Dr., Hannover. Worms.

Nole, Dr., Hannover. Worms. Noll, Dr. Fritz, Privat-Docent, Poppelsdorfer Allee, 42, Bonn. Bot.

Noll, F. C., Dr. Prof., Ocderweg, Frankfort a. M. Zool. Nolte, O. v., k. Oberstlieutenant a. D., Bensheim (bei Darmstadt), Hessen. Lepid.

Nussbaum, Dr. Joh. Nep. Ritter von, k. b. Geheimrat, Universitäts Professor, Munich, Bavaria.

Nussbaum, M., Bonn. Morphol., Anat.\*

Obenauf, Gustav, Zeitz bei Leipzig. Lepid., Coleopt. Will buy, sell and exchange.\*

Obenauf, Karl, Aue bei Zeitz. Lepid.

Oertel, K., Munich. Ast.
Oettel, A., München, Karmeliterstr. Coleopt.
Oltmann, Friedrich, Prof., Dr., Rostock. Bot., Algæ.
Oppenheim, Dr. H., Berlin. Ast.
Orth. Prof. J. Livin Civil and Parks.

Optenneim, Dr. H., Berlin. Ast.
 Orth, Prof. J., Univ., Göttingen. Pathol., Mic.
 Ortmann, Arnold, Dr. Phil., Assist. am. Zool. Mus., Strassburg i. Elsass. Invert. Palæo., Corallen, Zool., Crust., Worms, Moll., Radiates, Bryozoa, Cephalopoda, Madreporaria.\*
 Osann, Dr. Alfred, Prof. a. d. Univ., Heidelberg. Min., Crystall., Lithol.

C. Ex.\*

Ost, H., Dr. Phil., Prof. d. Techn. Chemie a. d. Tech. Hochschule, Hannover, Tägerstrasse. Chem., Metall.\*

Osten, Ferdinand, Hannover, 9 Kramerstr. Lepid., Old Bibles, Auto-

graphs. C. Ex.\*

Osterbind, Aug., Dr. Med., Wilhelmshaven. Ent., Orn.

Ostwald, Prof. Dr. Wilhelm, Brüderstr. 34, Leipzig. Chem., esp. Theoret. and Phys.

Pagenstecher, Dr. Arnold, Sanitätsrath, Wiesbaden, Taunusstr. 30. Lepid.

Lepid.

Partsch, Prof. d. Geog., Univ., Breslau.

Paschwitz, Dr. E. von Rebeur, Merschurg. Ast.

Paulsen, Prof. Dr. Friedrich, Fichtestr. 31, Steglitz bei Berlin. Philos.

Pauly, August, Privat-Docent an der Univ., Augustenstr. 97, II., Munich.

Fort. Zool., Darwinism, Ent. C. Ex.

Pauly, Dr. Max, Mühlberg an der Elbe. Ast. C.

Pax, Ferdinand, Dr., Prof. Bot., Univ.; Dir des Bot. Gartens, Breslau.\*

Pazschke, Dr. Otto, Editor der Fungi Europaei et extra-Europaei v. Rabenberst. Leipzig. R. 20 Heinrichstr. Fungi. C. Ex. benhorst, Leipzig, R., 20 Heinrichstr. Fungi. C. Ex. Pechuël-Loesche, Prof. E., Jena.

Peter, Albert, Prof. der Bot., Dir. des Botan. Gartens u. des Botan. Mus., Untere Karspüle 2, Göttingen. Bot.

Peter, B. von, Leipzig. Ast.

Peters, C. F. W., Konigsburg. Ast. Petersen, Dr. Theodor, Frankfort-on-Main. Chem., Geol., Geog.\*

Petry, Hermann, Strassburg i. Els., Neudorf, Polygonstr. 49, 1. Phæn. Bot., Ferns. C. Ex.\*

Pfeffer, Dr. G., Naturhist. Mus., Hamburg. Zool., Moll., Crust., Fishes. Pfeffer, Prof. W., Univ. Leipzig, Director des bot. Instituts und des bot. Gartens, K. S. Geheimer Hofrath. Physiol., Bot.\*

Pfeiffer, Dr. August, Kreisphysicus, Wiesbaden, Nassau, Adolfstr. Mic. (Bacterien).

Pfister, F. J., Grossherzoglicher, Gartendirector, Karlsruhe (Baden).\*
Pfitzner, Wilhelm, a. o. Prof. Anat., Strassburg i. Els.
Pflüger, Dr. Ed. Fr. Wilhelm, ord. Prof., Dir. Physiol. Inst., Bonn.
Pinner, Adolf, Ph.D., Univ., Berlin. Chem.\*
Pinzger, Prof. Dr., Reichenbach. Bot.
Plassman, J., Warrendorf. Ast.

Plate, Ludwig H., Dr. Phil., Privat-Docent der Zool., Zool. Inst., Marburg. Mic., Zool., Gen. Biol., Geog. Dist., Morphol., Emb., Anat. Pohlig, Dr. H., Prof. a. d. Univ., Bonn. Palæo., Geol. Polakowsky, H., Dr. Phil., Berlin, N.W., Lübecker Str. 6. Geog. and

Ethnog. of Spanish America.\*

Poleck, Dr. T., Prof. Chem., Roy. Univ., Breslau.

Ponfick, Emil, Dr., Prof. an der Kgl. Univ., Breslau, Nova Strasse 3. Anth., Histol.

Poppe, Dr. S. A., Vegesaek bei Bremen. Copepoda.

Poseharsky, Gustav Adolf, Inspector d. K. Botan. Gartens, zu Dresden.

Phan. and Crypt. Bot.

Potonié, H., Dr. Phil., Palæo-Phytologe an der Kgl. Preuss. Geol-Landesanstalt und Doccnt an der Kgl. Bergakademie. Chef-Redae-teur der "Naturwissenschaftlichen Wochenschrift," Berlin, N. 4, Invalidenstr. 44. Bot: Crypt. Plants, Ferns, Veg. Palæo. C. Ex.\*

Prantl, Dr. Karl, Professor der Botanik und Dir. des Bot. Gartens, Bres-

lau. Bot., Filices. C. Pratt, Henry S., Zool. Inst., Leipzig.

Preuss, Wilhelm Heinrich, Navigation-Lehrer, Elsfleth. Physical Science, Biol. C. Ex. Beetles of the North of Germany for others. Preussner, Ludwig, Ph.D., 4 Eisenacherstr., Berlin. Geol., Chem. C.

Priegsheim, Dr. N., Professor, Königin-Augustastr. 49, Berlin, W. Bot.,

Queran, E., Göttingin. Geol. Querean, Edmund C., Anrora, Ill. (address for two years, Freiburg i. B., Germany, Schillerstr. 14). Geol. C. representative rocks of the

Alps and southern Germany. Ex. Rabl Rückhard, Dr. Hermann, Prof., Genthinerstr. 5a, Berlin. Mic., Emb.

and Anal. of Vert., Anth., Eth.
Radlkofer, Dr. Ludwig, Universitätsprofessor, Vorstand des Königl. Botan. Mus., ordentliches Mitglied der Königl. bayerisehen Academie der Wissenschaften, Münehen (Bavaria). Bot.\*

Ranke, Prof. J., Münehen. Nat. Hist., Emb., Anth.

Rath, Otto von, Dr. Phil., Freiburg i. B. Zool., Histol. Ratzel, Friedrich, Prof., Univ., Lcipzig. Geog. Dist., Eth., Ethnog.\* Rawitz, Dr. Bernhard, Privat-docent für Anat., Berlin.

Reehenberg, G., Breslau. Ast.

Redlich, Hermann, Präsident der Intern. Entomol. Vereins, Guben. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. Will buy. C. Ex.\*
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Regel, Dr. Fritz, a. o. Prof. der Gcog., Jena. Geog., Bot., Ethnog.\*

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drol. Herbar. Ex. Dendrol.\*
Rehm, H., M.D., Ratisbonne. Bot., Lichenology, Mycol., Ascomycetes.
Rehm, Hcinrieh, Regensburg. Fungi, Lichens. C. Ex.
Reibisch, J., Zool. Inst., Kiel. Polychæten, Nematoden.\*
Reibisch, Johannes, Cand. Phil., Zool. Inst., Lcipzig. Gen. Biol., Worms,
Moll., Planktology. C. Moll.\*
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Reichenow, Dr. Anton, Kustos der Kgl. Zoolog. Sammlung, Berlin, N.,

Invalidenstr. 43. Orn., Ool.\* Reichert, Alexander, Leipzig, Burgstr. 24. Bot: Phæn. Plants, Mic., Ent., Lepid., Orthopt., Coleopt., (Biol.), Lepid. (Biol.). C. Ex.\*

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Vorstand der Kgl. Kur-Anstalten, Wildbad, Wuerttemberg. Balneology, Neurol., Elect. C. Ex.

Reutti, Carl, Karlsruhe, Baden. Lepid.

Reutti, Carl, Karlsruhe, Baden. Lepid.
Rey, Eugene, Ph. D., Flossplatz 11, Leipzig. Orn., Ool. C. Ex.
Richter, Paul, Leipzig, Hospitalstr. 27. Algæ. C. Ex.
Richter, Paul, Dr. Phil. u. Gymnasiallehrer, Lübben in der Lausitz, Prov.
Brandenburg. Bot., Inorg. Chem., Metall., Mic., Photog.
Richter, Dr. Th., Prof. der Metall. an der K. Sächs. Bergakademie, Freiburg. Metall.
Richt ters, Dr. Fred., Wiesenau, Frankfort a. M. Zool.
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Riese, Dr. Heinrich, Privat-docent, 1st. Assist. der Kgl. Chirurg. Univ.,

Würzburg,\*

Rindfleisch, Prof. G. E., Univ., Würzburg. Pathol., Anat.

Risterpart, Dr. F., Carlsruhe. Ast.

Robbe, Otto, Bingen Rhein, Hessen. Bot. Rodig, C., Mikroscopisches Institut, Wandsbeck 6, Hamburg. Will send gratis his new catalogue of preparations.

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Roemer, Ferdinand, Royal University, Breslau, Prussia. Geol., Palæo. C. Ex. Palæozoic and other fossils of Europe for North American specimens.

Roeschke, Hans, M.D., Blücherstr. 57, Berlin. Coleopt., Cicindelidæ, Carabidæ. C. Ex.\*
Rohode, Dr. Emll, Privat-docent, Asst. Zool. Inst., Breslau. Nematod.

Rohrbach, Dr., Gotha. Ast. Rohweder, J., Husum. Orn., Ocl.

Rolle, Herm ann, Naturaliste, Berlin, N.W., Emdener Str. 44. Con., Moll.
C. Dealer in L., M. and F. W. Shells, Birdskins, Eggs, Nests,
Insects, Reptiles, Amphibia, Fossils, Corals, etc., etc.\*

Rollmann, Dr. Wilhelm, Coburg. *Physics*.
Rosenberger, Ferdinand, Ph.D., Frankfurt a. M. *Physics*, *Bibliog.\**Rosenbusch, H., Kaiser Str. 13, Heidelberg. *Petrog*.

Rosenstock, Eduard, Dr. Phil, Gotha. Crypt. Bot., Ferns. C. Ex. Rosenstock, Eduard, Dr. Phil, Gotha. Crypt. Bot., Ferns. C. Ex. Rothpletz, Aug., Prof., München. Geol. Roux, Dr. William, Prof. Univ., Breslau. Emb., Darwinism. Rückert, Dr. J., Privat-Docent an der Univ., München. Emb. Rüdiger, Max, Frankfurt a. Oder. Bot. Rüdiger, M., Dir. Anat. Anstalt, München. Anat., Brain, Ear. etc. Ruge, Reinhold, M.D., Linden-Hannover. Coleopt., esp. Cicindelidæ. C. Ex.\*

Rumker, Prof. D., Hamburg. Ast. Russ, Karl F. O., Ph.D., Bellealliancestrasse 81, Berlin, S. W. Orn. C. Herausgeber der "Isis" und der "Gefiederten Welt." Verfasser des "Lehrbuch der Stubenvogelpflege, Abrichtung und Zucht."\*

Rust, Dr., Hannover, Sedanstr. 14. Radiolaria.\*

Sachs, Dr. Julius v., K. Bayerischer Geheimrath, Prof. der Bot., Wurzburg. Bot., Morphol., Physiol. of Plants.

Sadebeck, Prof. Dr. Richard, Prof. der Bot. und Dir. des Bot. Mus. und des Bot. Laboratoriums für Waarenkunde, Steinthorplatz, Hamburg. Physiol. and Anat. of Plants, Morphol., Mycol., Bot.

Salkowski, Dr. Prof. H., Akad., Münster. Chem.

Salo, Gabriel, Dr. Phil., Breslau. Chem.

Samassa, Paul, Dr. Med. et Phil., Zoolog. Inst., Heidelberg. Zool. Sanio, Carl Gustav, Ph.D., Lyck (Ost-Preuss.). Bot: Phan. and Crypt. Plants, Mosses.

Sarasin, Dr. C. Fritz, Nürnbergerstr. 3, Berlin, W. Echini, Gasteropods. Sarasin, Dr. Paul B., Nürnbergerstr. 3, Berlin, W. Emb., Helix., Bithynia.

Sauber, Amandus, Assist. Nat. Hist. Mus., Hamburg, Böhmkenstr. 46.

Microlepid. C.\*
Sautermeister, F. L., Schoerzingen, Post Schoemberg, Württemberg.

Crypt. Plants, Ferns, Mosses, Fungi, Lichens. C. Ex.
Schreffer, Prof. C. J. T. H., Jena. Math., Physics.\*
Schäff, Ernst, Dr. Phil., Dir. des Zool. Gartens, Hannover. Mammals,

Orn., Ent., Säuget., Vögel.\*

Scharlok, Julius, Graudenz, Gartenstr. 22. Phæn. Bot.

Schatz, Dr. Josef Anton, Geisingen, Baden. Fhan. and Crypt. Bot. C. Ex.\* Schauf, Dr. W., Elkenbackstr., Frankfurt a. M. Minerals.

Schaufuss, Camillo Festivus, Dir. des Mus. Ludwig Salvator in Meissen, Saxony. Zool. C. Ex. for insects and shells. Wishes Pselaphidæ, Scydmænidæ, Scolytidæ and Biolog. Objects.\*

Schaufuss, L. W., sonst E. Klocke, Meissen, Sachen. Bibliog., Zool., Gen. Biol., Anat., Anth., Osteol., Ent. Desires Scydmænidæ and Tomicidæ. C. Ex.\*

Schauinsland, Dr. H.. Dir. des städtischen Museums für Natur Völker and Handels. Kunde. Branco. Zool.

und Handels Kunde, Bremen. Zool., (Emb., Anat., Worms), Ethnog.\*

Scheffer, Carl Gust., Post-secretär 68, II., Glauburgstr., Frankfort a. M. Macro and Micro-Lepid. C. Ex.

Scheibe, Robert, Dr. Phil., Berlin, N., Invalidenstr. 44. Min., Strat. Geol., Crystall. C. Ex.\*
Scheibler, Dr. C., Kaiserl. Geheimer Regierungsrath, Prof. der Chemie und Herausgeber der Neuen Zeitschrift für die Rübenzucker-Indus-

trie, Buchenstrasse 6, Berlin, W.\*
Schemmann, Wilhelm, Annen i. Westfalen. Mosses. C. Ex.
Schenk, Martin, Med. Dr., Siegen in Westfalen. Bot.
Scheppig, Carl, Berlin S. O., Manteuffel Str. 93. Phæn. and Crypt. Plants.
C. Ex.

Schewiakoff, Dr. Wladimir, Heidelberg. Protozoa.

Schieck, F. W., Halleschestr. 14, Berlin, S. W. 46. Coleopt., Mic. Diatom. Preparations.\*

Schiefferdecker, Dr. Paul, Prof. Anat., Bonn. Histol., Technol. Schiller, Carl, Dresden, N., Bauntznerstr. 49, III. Crypt. Plants, Neuropt.

C. Ex.\*

Schilsky, F., Berlin, Schönhauser Allée 29. Ent.
Schirmer, C., Berlin. Coleopt. Dipt.
Schlömilch, Prof. Dr. Oscar, Dresden. Math.
Schlüter, Wilhelm, Naturalist, Halle-on-Saale. Vert., Invert. C. Ex.\* Schonfeldt, v., Oberst Z. D. Burgstr. 666, Siegen, Westfalen. Coleopt. (Scarab., Brenthid., Japan Fauna).\*
Schmeil, Otto, Dr. Phil., Halle a. S. Crustacca.

Schmidt, Alfred, Chemist, Coeln a. Rh., Brüderstr, 7. Chem., Phys., Elect., Mic., Bact.\*

Schmidt, Emil, Dr. Phil. et Méd., Prof., Univ., Leipzig, Schenkendorf Str. 5. Anth., Arch., Eth., Ethnog. C. (Craniological Coll. 1200 skulls). Ex.\*

Schmidt, Dr. Ferdinand, Asst. Zool.-Zoot. Inst., Rostock. Bryozoa.

Schmidt, Oscar, Prof., Dir. Zool. Inst., Strassburg. Schnabl, Joh. N., München, Lindwurmstr. 75. Fungi, Lichens. C. Ex.\*

Schneider, Anton, Dir. Zool. Inst., Breslau. Zool., Vert. Anat. Schneider, Carl, Bergstr. 74, Hagen i. W. Ent., Lepid., Coleopt. C. Ex.\* Schneider, Oskar, Prof., Dr., Protikusstr. 9, Dresden. Min., Eth., Ethnog.,

Coleopt., Skorpione, Muschelgeld. C. Ex.\* Schoebel, Dr. Med., Markt-Bohran (Schlesien.) Palæo.

Scholz, Carl, Bojanowo, Prov. Posen. Phan. Bot., Ferns. C. Ex.\*

Schön, L., Asst., Univ., Giessen. Chem.

Schorn, Dr. R., Hamburg. Ast.

Schröder, Dr. Ernst, Prof. a. d. Techn. Hochschule, Karlsruhe in Baden.

 $Math., \ Logic.$ 

Schröder, H., Dr., Bezirksgeologe, Berlin, N., Invalidenstr. 44, Königliche geologische Landesanstalt n. Bergakademie. Strat. Geol., Palæo.\* Schröder, Richard, Dr. Phil., Rector des Realprogymnasiums 6, Naum-

being a. Saale. Moll. C. Ex.
Schuberg, Dr. Aug., Asst. Zool.-Zoot. Inst., Winzberg. Infusoria.
Schuchardt, Dr. Theodor, Manufacturing Chemist. Supplier of new and Schuchardt, Dr. Theodor, Manufacturing Chemist. Supplier of new and rare medicinal products. Importer of new vegetable medical plants. Bot., Min., Chem. C. Ex.
Schüle, W., Dir. der Kais. Obstbauschule, Grafenburg bei Brumath (Elsass). Bot., Zool., Pomol., Hort.\*
Schultz, Arthur, Dr. Med., Dresden, Camelienstr. 4. Lichens. C. Ex.\* Schultze, Prof. Dr. Bernhard, Univ., Jena. Gynαcology.\*
Schultze, Dr. Oscar, Prof. Anat. Emb. Inst., Wurzburg. Emb.
Schultz, H. Hamburg. Hammerbrookstr. 49. Coleont.

Schulz, H., Hamburg, Hammerbrookstr. 49. Coleopt.

Schulz, Wilhelm, Brandenburg (Havel), Kurstr. 11. Bot., Mosses. Éx.\*

Schulze, Franz E., Prof. der Zool., Berlin, N., Invalidenstr. 43. Zool., Mic., Morphol., Emb., Anat., Sponges.\*

Schumacher, R., Kiel. Ast.

Schumann, Carl, Doctor der Zahnheilkunde, pract. Zahnarzt, Einbeck, Prov. Hannover.\*

Schumann, Karl, Kustos am Königl. Botan. Mus., Dr. Phil., und Prof., Schöneberg b. Berlin, Sedanstr. 99, III. Bot., Palæo., Biol., Geog. Dist., Morphol., Emb.\*

Schumann, Victor, Leipzig. Ast.

Schur, Wilhelm, Prof., Dir. of Obs., Göttingen. Ast.\*

Schurtz, Heinrich, Dr. Phil., Privat-docent, Plagwitzer Str. 31, Leipzig. Hist., Metall., Arch., Eth., Ethnog.\*

Schütt, Franz, Dr. Phil., Privat-docent d. Univ., Kiel. Bot: Crypt. Plants, Arg. Desgrids. District Head.

Algæ, Desmids, Dintant, Tivat-docent d. Only., Klei. Bot. Typh. Plants, Algæ, Desmids, Diatoms, Hort., Photog., Gen. Biol., Pharmacognosy, Protozoa, Planktology.\*

Schwalbe, Gustav, o. Prof. der Anat., Artilleriewallstr. 2, Strassburg i. Els. Zool., Gen. Biol., Morphol., Emb., Vert. Anat., Anth., Eth., Ethnog. Vert. Maryallo Octob. Micel. Micel. Histol.

Ethnog., Vert., Mammals, Osteol., Myol., Histol.\* Schwanert, Hugo, Dr. Phil., Prof. der Chem. a. d. Univ., Greifswald.\* Schwarz, Prof. H. A., Univ., Grunewald bei Berlin, Hubertus-Allee 13. Math.\*

Schwarz, O., Berlin, Alte Jacob Str. 1. Ent.

Schweinfurth, Prof. Dr. George August, W. Potsdamerstr. 75 A, Berlin. Bot. C. Ex. Egyptian and Tropical African Flora. Desires Tropical African Plants, Ex., Purchase.\*

Schwendener, Simon, Dr. Phil., Prof. an der Univ., Mitglied der Akad.
d. Wiss., Berlin, W. Bot., Mic.\*

Schwoerer, Emile, Hohlandsberger Strasse 10, Ingenieur Secretair des Herrn G. K. Hirn, Colmar (Elsas). Engineering.\*

Scriba, W., Wimpfen. Coleopt.
Secliger, Dr. O., Privat-docent Zool., Eisenacher Str. 11, W. Berlin. Development of Ascidians, Bryozoa, Crinoids.\*

Scibert, Wilhelm, Wetzlar. Optics, Bacteriol.\*
Seidel, C. Friedrich, Weinböhla b. Dresden. Bot: Phæn. Plants, Hort.
Umbellifera. C. Living plants. Herbar. Ex.\*

Seitz, Adalbert, Practischer Arzt and Privat-docent der Zool., Giessen (Hessen), Bahnhofstr. Ent., Exotic Lepid. C. Ex. Lepid.\* Selenka, Prof. Emil, Dir Zool.-Zootom. Inst., Erlangen. Emb., Vert.,

Anat., Moll., Invert., etc.\*

Seler, Dr. Eduard, Dr. Phil., Dir. Assist. am Königl. Mus. f. Völker-kunde, Steglitz b. Berlin, Kaiser Wilhelmstr. 3. Arch., Eth., Ethnog., Philol.\*
Selling, Prof. E., Univ., Würzburg. Math.\*
Semon, Dr. Richard, Prof. Anat. Inst., Jena.
Semper, Prof. Carl, Dir. Zool-Zoot. Inst., Würzburg.

Severin, John, Glatz. Lepid. C. Ex.\*

Sheiner, Dr. J., Potsdam. Ast. Siber, Wilhelm, Marburg a. Lahn, an dem Schlag 6. Bot., Hort.\*

Sickmann, Franz, Lehrer a. d. höh. Privatschule, Iburg, Prov. Hannover. Hymenopt. C. Ex.\*

Simon, Hans, Kaufmann, Stuttgart. Carabus, Ent. Horns and skulls of the Cervidæ. Will buy and ex.\*

Simonsen, A., Assist., Physik. Inst., Kiel. Elect.

Simroth, Dr. Heinrich, Privat-docent, Leipzig. Zool., Moll., Slugs. C. Ex.\*

Snow, Benj. W., Berlin. Ast. Solereder, Hans, Dr., Privat-docent an der Univ., Knöbelstr. 12, Munich. Bot.

Solger, Prof. Bernhard, M.D., Univ., Greifswald. Anat., Histol., Emb. of Mam. and Vert.\*

Solms-Laubach, Hermann, Graf zu, Prof. Bot., Dir. Bot. Gardens, Strasburg i. Els. Bot., Veg. Palæo.\*

Sommer, Ferdinand, Prof., Dir. Anat. Inst., Greifswald.

Sommer, G., Bot. Gart., Carlsruhe, Baden. Emb.

Soraucr, Dr. Paul, Proskau near Oppeln, Silesia. Plant Diseases. Spandel, Erich, Offenbach am Main. Palæo., Geol., Zool., Moll., Pro-

 Spangenberg, Fr., Prof., Aschaffenburg. Crustaceæ.
 Spengel, Dr. J. W., Prof. der Zoologie u. vergl. Anat. der Univ., Dir. des Zool. Inst., Giessen. Editor "Zoologische Jahrbücher," Sec. "Deutsche Zoologische Gesellschaft" (Gustav Fischer, Jena). Zool.\*

Spiessen, August, Freiherr von, Koenigl. Preussischer Oberfoerster, Winkel im Rheingan Regierungsbezirk, Wiesbaden, Hessen-Nassau. Bot: Phan. Plants, Ferns, Mic., Ast., Math. C. (Herbarium.) Ex.\*

Sprung, Dr. A., Prof., Vorsteher des K. Preuss. Meteor. Magn. Observat.,

Potsdam. Meteo.\*

Stadelmann, Hermann, Ph.D., Berlin, W., Behren Str. 22. Hymenopt. Standinger, Otto, Ph.D., Blasewitz-Dresden. Lepid., Coleopt. Large C. Ex.\*

Stechert, Carl von, Hamburg. Ast. Stein, Paul, Genthin. Dipt. C. Ex.\*

Steinbrinck, Dr. C., Lippstadt. Bot.
Steinmann, Gustav, Prof, Dr., Freiburg i. B. Invert. and Veg. Palæo.,
Geol., Invert. Anat., Crustacea, Moll., Radiates, Sponges, Protozoa.\* Steinthal, Prof. Dr. Hajim, Schöneberger Uger 42, Berlin, W. Psychol. Stelzner, Dr. Alfred W., Prof., Kgl. Bergakademie, Freiberg (Saxony). Geol., Min.\*

Stenzel, Gustav, Dr., Prof., Breslau, Dentsches Reich, Ohlauer Stadtgraben 26. Phæn. Bot., Ferns, Veg. Palæo.\*

Stertz, Otto, Breslau, Wallstr. 8. Lepid.

Sterzel, Dr. J. T., 16 Kastanienstr., Chemnitz (Saxony). Veg. Palæo., Geol.\*

Stieda, Dr. L., Prof. der Anat., Univ., Königsberg i. Pr. Emb., Vert. Anat., Anth., Histol.\*

Stöckhardt, Prof. Dr. Ernest Theodor, Counsellor of Ministerial Department of Agric. and Industry, Pensionary, Bautzen. Agric., Zool., Anth.\*

St. Paul, Baron von, Ulrich, Fischbach, Schlesien. Bot., Coniferen, Alpinen, Orchiden. Introduction of new and rare plants. Wishes correspondents abroad.

Straehler, A., Oberförster a. D., Jauer. Bot: Phæn. and Crypt. Plants, Ferns, Mosses.\*

Strahl, Dr. Hans, Prof., Hessen. Emb. Vert.
Strasburger, Ed., Prof. d. Botanik a. d. Univ., Bonn. Bot.\*
Strecker, Pastor, Fritzow b. Cammin, Prov. Pommern. Coleopt.
Strecker, G., Carvin bei Coerlin a. d. Persante, Pommern. Coleopt.
Straint, Dr. Heinrigh, E. Hair, Page Corte Brancher. Vole D.

Streintz, Dr. Heinrich, k. k. Univ. Prof., Gratz, Burgring No. 16. Phys.\* Streng, August, Prof., Dr., Giessen. Phys. Geol., Min., Crystall., Lithol. C. Ex.\*

Sturm, Prof. Rudolf, University, Breslau. Math.\*

Stuliger, Prof. Hugo, Munich. Ast.
Sundermann, Franz, Lindau, Bavaria. Phæn. Bot., Alphine Hort. C. (2000 Alpine). Ex. seeds.\*
Supan, Alex., Ph.D., Prof., Gotha. Phys. Geol., Geog. Dist.\*
Sydow, Paul, Berlin, W., Geltzstr. 6. Referent für "Just, Botanischer Jahresbericht," über Pilze und Moose. Bot., Ferns, Mosses, Fungi, Lichens, Algæ. C. Ex.\*
Taschenberg, Dr. Ernest, Prof. Extraord., Inspector Zool. Inst., Halle a.

S. Ent.\*

Taschenberg, Otto, Dr. Phil., Prof., 27 Henriettenstr., Halle a. S. Bib-liog., Zool., Ent., Worms.\*

Taubert, Paul, Ph.D., Berlin, W., 30, Kgl. Botan. Mus. Bot. (Leguminosæ). C. Ex.\*
 Thiele, Dr. Johannes, Dresden, Zool. Mus., Zwinger. Moll., Zool.,

Invert. Anat.\*

Thierfelder, A., Prof. ord., Dir. Pathol. Inst., Rostock.

Thiergarten, Ferd., Verleger der "Badischen Presse," Karlsruhe. Ent: Lepid. C. Ex.\*

Thomas, Dr. Friedrich August Wilhelm, Prof. und Oberlehrer am Herzogl. Gymnasium Gleichense, Ohrdruf, bei Gotha. Phytopathology. C.\*

Thum, E., Institut für Mic., Leipzig, Brüderstr. 35. Diatoms, Foraminifera, Sponges, etc. Catalogue with 3000 numbers free.
Timm, Dr. R., Eilbeck, Maxstr. 2. Insects, Beetles.
Torges, Emil, Dr. Med. u. Chir., Oberstabsarzt, 1. Schriftführer d. Thü-

ring. Botan. Vereins, Weimar, Funker Str. 12. Bot., Phan. Plants. C. of German Plants.\*

Trautschold, Hermann, Prof., Breslau, Kaiser Wilhelmstr. 87. Palaco., Geol.\*

Treichel, Alexander, Agrosoph, Hoch-Paleschken, Post Alt-Kischau (West Prussia). Bot., Ethnol., Præhist., Philat. C. Ex. Offers plants and stamps, postal and fiscal.\*

Trobitius, Ernst, Göttingen, Kornmarkl. 13. Lepid. C. Ex. Tschorsche, Franz, Meuselwitz bei Altenburg. Lepid.

Tubeuf, Dr. Carl Freiherr von, Privat-docent an der Univ., Georgenstr. 14, 3, Munich. Pathol. of Plants, Forest Bot.

Ude, Max, Pracparator, besonders für Insecten, Berlin, N. 4, Schlegelstr. 5, II.\*

Uhlworm, Dr. Oscar, Dir. der Stadt-Bibliothek, Cassel, Terrasse 7.
Bot: Crypt. Plants, Ferns, Mosses, Fungi, Lichens, Alga, Desmids, Diatoms, Min., Bibliog., Bacteriol. C. Ex. Ullrich, Prof. Dr., Mineral. Mus. am Polytechnikum, Hanover.

Urban, Prof. Dr. Ignatz, Unterdirector des Königl. Botan. Gartens und Botan. Mus., Redacteur der Flora Brasiliensis, 5, 2 W., Berlin, Spon-

Doian. Mus., Redacteur der Flora Brasiliensis, 5, 2 W., Berlin, Sponholzstrasse 37, Friedenau, near Berlin. Bot.\*

Utsch, Jacob, Dr., Freudenberg i, Westfalen, Phæn. Bot. C. Vaeltzkow, Dr. Alfred, Wurzburg. Emb., Ent.

Vallentiner, Dr. W., Carlsruhe. Ast.

Vanhoeffen, Dr. Ernst, Kicl, Zoolog. Mus. Zool. (Meduseæ), Bot., Min. Vanhöffen, Dr. Ernst, Wehlau. Geol., Photog., Gen. Biol., Ent., Radiates.\*

Van Werveke, Dr. Leopold, Strasburg. Strat. Geol., Lithol.\*
Veltman, Dr. W. von, Poppelsdorf, Bonn. Ast.
Verhoeff, Carl Wilhelm, Poppelsdorf, bei Bonn a. Rhein. Biol., Phæn. Plants, Zool., Gen. Biol., Geog. Dist., Morphol., Invert. Anat., Articulates, Ent., Herpetol. C.\*

Verworn, Dr. Max, Physiol. Institut, Berlin. Emb., Bryozoa.

Vetter, Benj., Dresden. Zool.
Virchow, Dr. H., Prof., Univ. Berlin. Anat.\*
Vogel, Prof. Dr. H. C., Geheimer Reg. Rath, Dir. des Astrophysikalischen
Observatoriums, Potsdam. Coleopt., Ast. and Astro-physics. C. Ex.\*

Voight, Dr. Walter, Asst. Zool.-Zoot. Inst., Bonn.

Voigt, Dr. Alfred, Asst. am Hamburgischen Botanischen Mus. u. Lab. für Waarenkunde, Hamburg, VIII.\*

Volhard, Jacob, Prof. and Dir. Chem. Inst., Mühlpforte 1, Halle a. Saale. Chem.\*

Völker, Dr., Conserv. der naturwiss. Sammlungen der Realschule, Kassel. Zool., Bot.

Von Minekwitz, Grittenburg bei Dresden. Coleopt.

Vosseler, Dr. Julius, Assist. Zool. u. Anat. Anstalt, Tübingen. Copepoda. Wagemann, Hugo, Weinhandlung, Wiesbaden. Lepid. Wagener, Prof. G., Marburg. Wagner, Dr. Franz von, Privat-docent u. Assist. des Zool. Inst. der Univ. Strassburg (Elsass). Zool., Vermes. Entwickelungsgeschiehte. Wagner, Moritz, München.

Wahnschaff, Dr., Poseldorf. Mosses.

Wahnschaff, Dr., Poseldorf. Mosses.

Wahnschaffe, Felix, Dr. Phil., Königl. Landesgcologe, Prof. an der Bergakademie u. Privat-docent an der Univ. Berlin, N., Chausseestrasse 52 a, JH. Geol.\*

Waldeyer, Prof. Dr. H. W. G., Berlin. Anat.\*

Waldever, W., Prof. Anat. und Dir. des I. Anatomischen Inst. der Univ.,

35 Lutherstr., Berlin, W. Emb. Anat.\*
Walter, Dr. Alfred, Asst., Zool. Inst., Jena. Morphol., Lepid.
Walther, Dr. Johannes, a. o. Prof. an der Univ. Phys. Geol., Lithol., Gen. Biol.\*

Wanach, Bernhard, Königsberg. Ast.
Wandolloek, Benno, Ph.D., Berlin, O., Alexanderstr. 14a. Dipt.
Warburg, Dr. Otto, Berlin, Grunewald Str. 6-7. Bot.
Warnstorf, Karl, Mittelschullehrer, Neuruppin, Brandenburg. Mosses. C. Ex.\*

Wascheck, Schmardt bei Kreuzburg, Pr. Schlesien. Lepid.

Weber, Dr., Wehlheiden bei Kassel. Coleopt.

Weber, Prof. Leonhard, Univ., Kiel. Phys., Elect., Meteo., Effects of Lightning. Atmosph. Elect., Photometry.\*
Wehmer, Carl, Dr. Phil., Privat-docent a. d. Tech. Hochschule, Hannover, Cellerstr. 154. Bot., Chem., Physiol. Herbarium. Ex. plants.\*

Weigel, Oswald, Dealer in new and second-hand books on Nat. Hist. and

Science, Leipzig, Königsstr. 1.\*

Weigelt, Dr. Curt, Gen. Sec. des Deutschen Fischerei-Vereins, Zimmer-Strasse 90-91, Berlin, S.W. Angewandte Chemie, Ichth., Bacteriol.\* Weisbach, Dr. Albin, Freiburg i. S. Min.\*
Weise, F., Berlin, Griebenowstr. 16. Ent.

Weisnann, Dr. August, Prof. Zool., Freiburg i. B., Zool., Mic., Morphol., Emb., Anat.\*
Weiss, F. E., Dr. Phil., Docent der Bot., Univ., u. Custos am Kgl. Bot. Garten, München. Bot., Fungi, Lichens, Algæ, Desmids, Diatoms, Hort. C. Ex.\*

Weisse, Arth., Dr. Phil., Berlin, W., Bulowstr. 103, I. Bot., Physics.\* Weissflog, E., Strehlenerstr. 7, Dresden. Diatoms.\*

Wellmann, Dr. V., Berlin. Ast. Weltner, Wilhelm, Dr. Phil., Custos, Museum für Naturkunde, Berlin, N., Invalidenstr. 43. Cirripedia, F.W. Polyzoa, Cælenterata, Sponges.\*

Wengel, E., Prof. Extraord., Med. Fac., Leipzig. Mic.

Wermbter, Hans, Dr. Phil., Stallupöhnen (Ostpreussen). Palæo., Geol., Min., Lithol. C. Ex.\* Widmer, Elisabeth, München, Augusterstr. 17, I. Phæn. Bot. (Primu-

lacea).\*

Wiedemann, Prof. Dr. Ernst Eilhard G., Universität, Erlangen. Phys.\* versität, Leipzig. Phys.\*
Wiedersheim, Prof. Robert, Dir. Zoot. Anstalt, Freiburg. Zool., Comp. Anat., Vert.

Wieler, Arwed, Ph.D., Privat-docent der Bot. an der Technischen Hochschule zu Braunschweig. Bot.\*
Wiepken, C. F., Dir. d. Grossherzogl. Nat. Cabinets, Oldenburg. Orn.,

Coleopt.\*

Wiglesworth, L. W., Königl. Zool. Mus., Dresden. Orn.\*

Wilder, Dr. Harris H., Asst. Anat. Inst., Freiburg. Amph. Vert. Anat., Emb.

Will, Dr. Friedrich, Erlangen. Ent., Biol., Coleopt. C. Ex.\*

Will, Dr. Ludwig, Privat-docent Zool., Rostock. Zool, Morphol., Emb \* Wilsdorf, Max, Sec. des Landw. Kreisvereins (vorm. Dir. der Landwirtschaftschule), Chemnitz. Bot.\*
Wilseng, Dr., Potsdam. Ast.
Winkler, A., Geh. Kriegsrath a. D., Schillstr. 16, Berlin, W. Bot., Mor-

phol., Biol. C.\*

Winkler, Dr. Clemens, Prof. der Chem. an der K. Sächs. Bergakademie,

Winkler, Dr. Clemens, Prof. der Chem. an der K. Sächs. Bergakademie, Freiberg, Sachsen. Inorg. Chem., Met.\*
Wiskott, Max, Kaiser Wilhelmstr. 69, Breslau. Lepid. C. Ex.\*
Witt, Gustav, Berlin. Ast.
Witt, Otto N., Ph.D., 38 Lindenallée, Westend, bei Berlin. Diatoms, Chem., Mic., Photog. C. Ex.
Witte, E., Königl Landgerichts-Präsident, Dusseldorf on the Rhine. Coleopt. exot., Longicornes, Cetonide, Buprestide, Lucanide.\*
Wittmack, Ludwig, Ph.D., Geh. Reg. R., Prof. a. d. Univ., u. a. d. landw. Hochschule, Invalidenstr. 42, Berlin, N. Bot: Phæn. Plants, Hort.. Mic.\* Hort., Mic.\*

Wobst, A., Ammonstr. 52, Dresden. Bot.
Woerlein, Georg, Kgl. Zahlmeistr, München, Nymphenburg. Autor:
"Flora der Münchener Thalshene, 1893." Bot: Phæn. Plants, Ferns. C. Ex.\*

Wolf, Dr. Max, Prof., Heidelberg. Ast. C.

Wundt Prof. Dr. Wm., Goethestr. 6, Leipzig. Psychol.
Wünsche, Friedrich Otto, Prof, Dr. Phil., Zwickau in Sachsen. Bot.\*
Yachan, Bernhard, Schön-berg b. Berlin, Herbert Str. 76, I. Phan. Bot.,
Lichens Min., Crustall., Lepid., Coleopt. C. Ex. Ferns, Mosses Lichens, Min., Crystall., Lepid., Coleopt.
Zabel, Hermann, Königlicher Gartenmeister, Hann. Münden.
Phæn. Plants and Ferns, Dendrology. C. Ex\*

Zacharias, Ed., Dr., Prof. der Bot., Strassburg i. Elsass., Goethestr. 15.

Zacharias, Dr. Otto, Dir. der Biologischen (fresh water) Station, am Gr. Plöner See, Plön (Holstein). Gen. Biol., Geog. Dist., Emb., Histol., Worms, Protozoa.\*
Zahn, Hermann, Karlsruhc. Phænerogams.

Zander, August, Asst. Referent für die "Abtheilungen Morph, und Physiol. der Zelle" und "Morphol. der Gewebe" des Bot. Jahresberichts, Paul Str. 8, Berlin. Bot., Org. Chem.\*
Zander, Richard, M.D., Prof. an der Univ., Prosector am Anat. Inst.,
Konigsberg i. Pr. Morphol., Emb., Vert. Anat., Histol.\*
Zeller, Prof. Dr. Eduard, Magdeburgstr. 4, Berlin, W. Philos.\*
Zetzsche. Chas. Edward, Dr. Phil., Prof. Carlstrasse 13, Dresde<sup>n</sup>, Saxony.

Physics, Math., Electric Telegraphy.\*

Ziegler, Ernst, M.D., Prof. Pathol., Freiburg i. B. Pathol.\*
Ziegler, Friedrich, Atelier für wissenschaftliche Plastik (vormals Dr. A. Ziegler), Freiburg i. B. Emb. Supplies Emb. Wax Models.\*
Ziegler, Heinrich Ernst, Dr. Phil., Prof., Freiburg i. B. Zool., Emb.\*
Zimmermann, Albrecht, Asst., Privat-docent, Tübingen, Grabenstr. Bot.\*

Zimmermann, Ernst, Dr. Phil., Berlin, N., Bergakademie. Strat. Geol.\* Zincken, Carl Friedrich, Dörrienstr. 11, Leipzig. The Geol. Horizons of the Fossil Carbons; the Fossil Hydrocarbons.

Zirkcisen. A. Heinrich Sh., M.E., Faktor of the Mineralicn-Niederlage of the Royal Savon Mining Acad., Teacher in the Royal Saxon Mining School, Freiburg.\*

Zittel, Karl A. von, Prof. u. Dir. des geolog. palæont. Staats Mus., Mün-

chen Geol., Palæo.\* Zschock, Otto v., Liegnitz, Prussia. Ent : Coleopt.\*

Zwink, Dr. M., von, Strassburg. Ast.

## GREECE.

Aphentulis, Theodor, Prof. der Pharmakologie und vertretungsweise der Bot., Athens.

Christomanos, A. C., Dr., Prof., Univ. of Athens. Chem.\*

Gennadius, P., Chief of the Section of Agric. (Minister of Interior) and Dir. of the Agric. School of Athens. Fungi, Hemipt.

Krinos, G. A., a. o. Pro . der pharmaceutischen Chemie und Dir. des pharmacentisch chemischen Laboratoriums der Univ., Athens. Chem., Syntagology.

Miliarakis, Dr. Spyridon, Prof. d. Bot. an der Universität, Athens. Mic. Crypt. Bot.

Stéphanos, Dr. C., Conserv. du Mus. Anth., Univ., Athens. Med.

## HELGOLAND.

Ehrenbaum, Ernst, Dr. Phil., Assist. an der Biol. Anstalt, Helgoland Zool., Ichth.\*

Heineke, Dr. Friedrich, Prof. u. Dir. der Kon. Biol. Anstalt, Helgoland. Zool., Ichth., Moll., Gen. Biol., Geog. Dist., Fishery, Nat. Hist. of the Herring."

## ICELAND.

Stefánsson, S., Adjunct, Lærer i Bot. y Geog., Mödruvellir pr. Akurcyri. Bot., Phan. Plants, Gen. Biol. of flowers, Geog. Dist. of plants. C. Ex. Phæn. Plants of Arctic America.

Thoroddsen, Prof. Th., Geologist, Reykjavik (via Leith, Scotland). Volcanology.

## ITALY.

- Abetti, Prof. A., Padua. Ast.\*
- Acqua, Dr. Camillo, Prof. di Storia Naturale al Liceo, Osimo. Physiol.,
- Alessandri, Giulio di, Piazza Castello 25, Turin. Fossil Cirripedia.\*
  Alfieri di Sostegno, Carlo, Presidente del Consiglio e Superintendente dell' Istituto, Florence.
- Angelis, Dr Gioacchino de, Assist. Gabinetto di Geol., R. Univ., Roma. Corallaires tert.\*
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- C. Ex.
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  Milan. Marine Algæ. C. Algæ of the Mediterranean. Ex.\*
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  Bassani, Francesco, Prof. de Geol., Univ. de Naples.
  Baudi di Selve, Flaminio, Via Baretti 18, Turin. Ent: Coleopt.
  Beccari, Odoardo, Prof., R. Museo di Storia Nat., Via Romana 19, Florage.

- ence. Bot. Belli, Dr. Saverio, Asst. Bot. Lab., Univ., Turin. Bot : Phanerog. Tri-)
- folium Hieracium).\*
- Bellonci, Prof. Giusseppi, Bologna. *Histol*. Bellotti, Cristoforo, Vice-Pres. della Societa Italiana di Scienze naturali, residente presso il Museo Civico di Storia naturale in Milano, Via
- Breva 10, Milano. Ittiologia. Acquisti. Cambi.\*
  Bellucci, Joseph, N.H.D., Prof. Univ., Perugia. Anth., Arch., Ethnol., Ethnog. C. Ex. Desires especially objects of Eth. and of Prehist. Arch.
- Bensa, Paolo, Via Giulia 31, Genova. Curculionida.\*
- Berlese, Dott. Antonio, Prof. di Zool. generale ed agraria nella R. Scuola Superiore di Agric. di Portici, Napoli. Acari-Insecta et Miriopoda, Fungi, Anat. Veg.

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  Bezzi, Mario, R., Univ. (Zool. Mus.), Pavia. Ent., Dipt.
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- Bicknell, Clarence, Bordighera (Ligurie). Local Geol., Bot.
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Bodio, L., Rome.

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Borbonnesc, Cav. Emilio, Conservatore del Musco Civico, Turin. Bordiga, Dr. Oreste, Prof. of Agric., R. Scuola Superiore d'Agric., Portici (near Naples).

Borelli, Dr. Alfredo, Assist. al R. Mus. di Zool. di Torino. Zool., Vermes.

Bosniaski, S. de, Bagni di S. Giuliano, Pisa. Veg. Palæo.

Bottini, Dr. Marchese Antonio, Ajuto alla Cattedra di Bot. della R. Univ. di Pisa. Veg. Anat., Bryol.

Brioschi, Francesco, Dir. Inst. Tech., Milan. Math.\*
Brioschi, Francesco, Dir. Inst. Tech., Milan. Math.\*
Briosi, Giovanni, Prof. and Dir. Bot. Gardens, and Crypt. Lab., Orto Bot.,
Pavia. Bot., Fungi, Anat., Histol. C. Mycol. Ex.
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sells, and exchanges Nat. Hist., objects, except Bot. specimens, Laboratoir et Magasin d'Hist. Nat.\*

Buscalioni, Dr. Luigi, Via S. Massimo 6, Turin. Bot., Anat., Cell. Calandruccio, Dr. S., Catania, Sicily. Parasitic Worms.

Calcri, Dr. Ugo, Museo di Bot., Via Romana 19, Florence. Bot.\*

Calloni, Dr. Silvio, Assist. R. Univ., Pavia. Bot., Geog. Dist., Ent. Camerano, Lorenzo, Prof. di Anat. comp., R. Museo di Anat. comp., Pa-

lazzo Carignano, Turin. Morphol., Emb., Anat., Herpetol., Histol., Worms.

Camus, Prof. Jules, Scuola Superiore di Guerra, 16 Via Bogino, Turin. Bot., Veg. Teratology.

Canalis, Prof. Dr. Pietro, Genova. Develop. Teeth, Mammals.

Candotti, Policarpo, Preparatore al Gabinetto d'Anat. Comp. dell' Univ.,

Genova.

Canestrini, Giovanni, Prof. all' Univ. di Padova, Piazza Forzaté 1506. Zool., Gen. Biol., Vert. and Invert. Anat., Anth., Ichthyol., Arach., spec. Acaroidea.\* Cannizzaro, Prof. Stanislao, Senatore Istituto Chimico della Regia Univ.

di Roma, Via Panisperna, Rome. Chem.

Capellini, Giovanni, Via Zamboni, 59, Bologna. Palæo., Strat. Geol., Lithol.\*

Caruel, Tcodoro, Prof. de Bot. et Dir. du Jardin et du Musée Bot. de l'Institut des Etudes Supérieures, Florence. Bot.

Casoria, Prof. Eugenio, Asst. of Gcn. Chem., R. Scuola Superiore d'Agric.,

Portici (near Naples).
Cattaneo, Giacomo, Dr. Nat. Sci., Socio dell' Istit. Lomb. e della Soc. Ital.
d. sc. nat., Prof. ord. d'Anat. comp. nella R. Univ. di Genova Morphol., Emb.\*
Cavara. Dr. Fridiano, Instituto botanico, Pavia. Bot: Fungi, Veg. Palæo.,

Mucol. Ex.\*

Cermenati, Mario, Museo Geologico, R. Univ., Rome. Gen. Geol., Storia della Geol. e della Palæo., geogenia.

Cerulli, V., Teramo. Ast.
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Chiarugi, Giulio, Anat. Institute, Florence. Vert., Morphol.
Chionio, Dr. Tito, Asst. al R. Museo di Min., Turin. Min.
Chiovenda, Emilio, Dr., Piazza Fiammetta 11, Rome. Phæn. Plants,

Ferns, Mosses, Fungi. C. Ex. Ciaccio, Giuseppe V., Prof. ord. Anat. Comp., Bologna. Vert., Invert.

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Umbria. Phan. Plants, Mosses, Lichens.\*
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Cocclii, Prof. Igino, Florence. Geol.

Comes, Dr. Orazio, Prof. R. Scuola Sup. Agric., Portici (near Naples). Veg. Pathol.

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Costa, Prof Dott. Achille, R. Univ., Napoli. Ent.

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D'Achiardi, Antonio, Prof. Univ., Pisa. Min.

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Degni, Rev. J. M., Prof. Phys., Convitto Pontano Conocchia, Naples.\*
Dei, Prof. Apelle, Delegato della Società generale dei Viticoltori Italiani,
Via dei Tufi 1, Siena (Tuscany). Orn., Ent., Comp. Anat. C. Ex.
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Del Prete, Dr. Raimondo, Viareggio, Tuscano. Malacol. C. Ex.\*

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Dorna. Alessandro, Dir. Roy. Ast. Obs., Turin.

Dructti, Alessandro, Ingénieur, Asst. à l'Ecole d'application des Ingénieurs, rue Lagrange 34, Turin. Min.

Dupont, Theodore, Omegna, Piemonte. Photog., Philol. C. Ex.\*

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Ent., Hymenopt., Formicidæ. C. Formicidæ of the world. Ex. Fabretti, Prof. Ariodante, Keeper of Mus. of Antiquity, Univ., Turin. Arch, espec, Etruscan and Roman Arch.\*

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Portici (near Naples).

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Env. Vert. Anat. Anth. Anth. Ethne. Electric Vert. Emb., Vert. Anat., Anth., Arch., Eth., Ethnog., Vert., Mammals, Orn., Ool., Herpetol., Ichthyol., Tax., Osteol., Myol. C. Ex.\*
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Italiano, Turin. Author of work on the topographical min. and econ. geol. of Italy, entitled, "I Tesori Sotterranei dell' Italia," 4 vols. 8vo. Ills., 55 francs. Geol., Min., Lithol.

Johnston-Lavis, H. J., M.D., M.R.C.S., B. ès Sc., L.S.A., F.G.S., Prof. of Vulcanology R. Univ. of Naples, Honorary, late Acting Physician and Surgeon to Messrs. Sir Wm. Armstrong, Mitchell & Co.'s Works, Pozzuoli, Palazzo Caramanico, 7, Chiatamone, Naples (Nov. to May): and 5 Princes Sov. Harriografe England (June to Oct.) to May); and 5 Princes Sqr., Harrowgate, England (June to Oct. 1). Palæo., Geol., Min., Chem., Mic., Meteo., Gen. Biol., Geog. Dist., Post. Stamps. C. Ex.\*

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Zool., Vert.

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Luigioni, Paolo, Via Muratte 66, Rome. Coleopt.

Macchiati, Dr. Luigi, Prof. di Storia Naturale nel R. Istituto Tecnico e
Libero docente in Bot. all' Univ. di Modena. Fisiol. veg. Bacteriol.,

Diatomée, Oscillariacée.

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Martelli, Ugolino, Sec. de la Soc. Bot. d'Italie, 8 Via della Forca, Florence. Bot. Ex.\*

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Min., Zool., Orn., Tax., Ent., Lepid., Coleopt. C. Ex.\*
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Ferrara. Hepaticologie, Mycol., Teratologie, Cecidiologie.\*

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esp. Molybden.

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Mori, Antonio, Direttore Orto botanieo, Modena. Bot.\*

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Muscari, M., Palermo. Ast.

Nasini, Raffaello, Prof. di Chimico generale nella Univ., Istituto Chimico della R. Univ., Padova. Chem., Physics.

Negri, Arturo, Assistant de Geol. à l'Univ., Padua. Geol., Palæo. Neneioni, Giuseppe, Capo giardiniere al R. Orto Bot., Pisa. Hort.

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Dist., Orn., Ichthyol., Arach., Crust.\*
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Pathol.

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Pezzi, Luigi, Via S. Massimo 11, Turin. Lepid.

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Pirotta, R., Prof. à l'Univ. de Rome, Via Panisperna, Rome. Bot.

Platt, Miss Julia B, Zool. Station, Naples.
Poli, Aser, Prof. di Storia Naturale nel R. Istituto tecnico, Piacenza Rot., Mic.\*

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Saccardo, Dr. Domenico, R. Ist. Bot. dell' Univ., Padova. Bot.

Saccardo, Dott. Francesco, R. Ist. Bot. dell'Univ., Padova. Bot.

Saccardo, Prof. P. A., Univ. de Padova. Bot., Mycol., Hist. Bot.\* Sacco, Dr. F., Prof. of Palæo., Univ. of Turin, R. Museo Gcol., Turin. Palæo., Invert. (Moll.), Vert., Strat. Tertiary and Cretac. Geol., Anth.\*

Salvadori, Tommaso, Vice-Director Zoolog. Museum, Turin. Zool., Orn., Ool. Ex.\*

Santoni, Prof. Milziade, Cameri. Arch.\*

Savastano, Dr. Luigi, Prof. d'Arborieulture, R. Scuola Sup. d'Agricoltura,
Portici (near Naples). Bot., Pathologie végétable.
Scacchi, Arcangelo, Prof. émerité de Min. à l'Univ. de Naples. Min.
Scacchi, Eugenio, Prof. de Minéralogie, Univ. de Naples.\*
Scarabelli Gineralogie. Line de Minéralogie.

Scarabelli, Giuseppe, G. F., Imola. Geol., Palaco.\*
Schiaparelli, Giovanni, Dir. R. Obs. of Brera, Milan. Ast.
Schiemenz, Dr. P., Librarian, Stazione Zool., Naples. Mollusca.\*
Schiff, Hugo, Prof. Chem., Istituto di Studi Superiori, Univ. di Frirenze,

3 Via Gino Capponi, Florence. Chem., Bibliog. C. of Lab.\* Schoebel, Emil, Dr. Phil., Assist. Zool. Station, Naples. Emb., Vert.\* Schönlein, Prof. K., Zool. Station, Naples. Physiol.

Schastien, Dr. Richiardi, Prof. dc Zool. et d'Anat. Comp. à l'Univ., Pisa. Gen. Nat. Hist.

Sella, Alfonso, Istituto Fisico della R. Univ., Via Panisperna, Rome. Crystall., Physics.\*

Senna, Dr. Angelo, Florence, R. Museo di Storia Nat., Via Romana 19. Chiroptera. Brenthidæ, Invert. C. Ex. Correspondence solicited.\* Sequënza, Giuseppe, Prot., Via Appalto, Messina, Sicily. Palæo. Sieci, Bibliotecario dell' Univ., Sassari. Solari, Angelo, Piazza S. Lorenzo, Genova. Coleopt. Italica. C. Ex.\*

Solla, Prof. Dr. Ruggiero, Ist. Forestale, Vallombrosa. Bot.

Simonelli, Dr. Vittorio, Mus. Geol., Bologna. Palæo., Gecl.\* Sommier, Stephen, Sec. Soc. d'Anthrop., Lungarno Corsini 2, Florence. Bot.\*

Sonsino, Prospero, Dr. en Méd., privat-docent à l'Univ., Pisa, Via San Lorenzo II. Worms, Zooparasites. C. Ex.\*

Sostegni, Prof. Dott. Livio, R. Scuola Enologica, Avellino. Chem.

Spezia, Giorgio, Prof. Univ., Turin. Min.
Squinabol, Dr. S., Via S. Agnese, I, Genova. Veg. Palæo.
Stocklin, Nicola, Via Goldoni, 10, Livorno. Coleopt.
Stoppani, Antonio, Prof. de Geol. à l'Institut des Etudes Supérieures et Dir. du Museo Civico à Milano. Palæo., Geol., Terrestrial Phys.

Strobel, Dr. Pellegrino, Prof. à l'Univ., ctc. Un des Directeurs du Bullettino di Paletnologia Italiana, Parma. Malacology, Palethnology, Palæo.\*

Strüver, Giovanni, Prof. Univ., Rome. Min.

Tachini, Prof. Pietro, Romana Coll., Rome. Ast. Taramelli, Dr. Torquato, Prof. de Géol. à l'Univ., Pavia. Geol. of secondary formations of the Alps and Appenines. C. Fossils of the Alps. Ex.
Targioni, Tozzetti, Prof. Adolphe, Museo de Bot., Via Romana 19, Flor-

ence. Zool.

Tecce, Dr. Enrico, Vet., R. Scuola Superiore d'Agric., Portici (near Naples).

Tellini, Dr. Achille, Prof. Nat. Hist., Assist. Univ., Dir. (with M. Cermenati) of the Review: "Rassegna della Scienze geologische in Italia," Roma. Tert. (Nummulitides), Strat. Geol. C. Ex.\*
Tenchini, Prof. Lorenzo, R. Univ., Parma. Anat.\*

Terracciano, Dr. N., Caserta, Terra di Lavoro.
Tocco, Felice, Prof. ord. di Storia della Filosofia, R. Istituto di Studi Superiori, Florence. *Phil.* 

Todaro, Prof. Francesco, Rome. Human Anat.\*
Tognini, Filippo, Dr., R. Istituto Botanico, Pavia. Bot: Fungi, Anat., Lithol.\*

Tommasi, Dr. Prof. Annibale, R. Univ., Pavia. Palæo., Geol.\*

Traverso, G. B., Civ. Mus., Genoa. Min.

Trinchese, Cav. Salvador, Prof. Anat. Comp., Naples. Develop. Moll. Trois, E. F., Conscrvateur de la Collection Sci. de l'Institut royal des Sci., Palais ducal, Venice. Ichth.
Tuccimei, Giuseppe, Prof. di Storia Naturale, Dottore in medicina,

chirurgia e in scienze naturali, Rome, Via dell'Anima 59. Invert.,

Palæo., Strat. Geol., Ent. C. Ex. Ugolini, Prof. dott. Ugolino, R. Ist. Tecnico, Padova. Bot.!

Uzielli, Prof. Gustave, Scuola d'Applicazione per gli Ingegneri, Turin. Min., Geol.

Verson, Enrico, Padua. *Biol*. Villari, Emilio, Prof. de Physique, Univ. de Naples. *Phys.*\*

Villari, Pasquale, Senatore, Memb. del Cosiglio Superiore, Prof. ord. di Storia Moderna, Pres. della Sezione di Lettere, R. Istituto Superiore, Florence.

Vimercati, Comte Prof. Guido, Dir. de la Revue Scientifique indus., Membre de la Soc. Ent. Italienne, Lungarmo Zecca, Villino 2, Florence. Ent.: Coleopt., Moll., Fossils et Minéraux de l'Ile d'Elbe. C. Ex.

Virgilio, Dr. Prof. Francesco, R. Mus. di Geologia, Turin. Geol.\*

Zanfrognini, Carlo, Orto Botanico, Modena. Bot.\*

Zecchini, Ing., Dir. della Stazioné agraria, Asti. Agric., Vine Culture. Zigno, Baron Achille de, Memb. Royal Geol. Survey of the Kingdom of Italy, Via Maggiore, Padova, Veneto. Vert. and Veg. Palæo., Strat. Geol. C.

Zona, T., Palermo. Ast. Zoological Station (Stazione Zoologica) at Naples. Marine Zool. Prof. Anton Dohrn, Director; Salv. Le Bianco, Conservator, Herm. Linden, Sec.\*

## MALTA.

Bonnici, Theod., M.D., Prof. of Surgery, Valetta Univ.; 43 Str. S. Tommaso, Floriana. Orn. C.
Briffa, Richard T., 95 Str. Vescovo, Valetta. Lepid. C.\*
Busuttil, Gustavo, M.D., Inghieret. Moll. C. Ex.
Caruana, A., D.D., Dir. of Education, 266 Str. S. Paolo, Valetta.

Arch.\*

Caruana de Conti Gatto, Michel-Angelo, 193 Str. S. Ursola, Valetta.

Ent., Coleopt., Lepid. C.\*

Caruana-Gatto, Contino Alfred, B.A., LL.D., Memb. Ital. Bot. Soc., Secto the Malta Nat. Sci. Soc., 59 Str. Levante, Valetta. Bot: Phan. and Crypt. Plants, Mosses, Lichens, Algæ, Ent., Lepid., Coleopt., Hemipt., Moll. Wanted: Mosses, Lichens, Algæ, Land Shells and Pamphlets on these Subjects. Offered in exchange: Land or Marine

Cooke, J. H., B.Sc., F.G.S., Ed: "Mediterranean Naturalist," Highland House, St. Julians. Geol., Paleo., Foraminifera. C. Ex. Debono, F., M.D., Prof. of Bot., Zool., Geol., Hyg., Forens. Med., Med. Bot. in Valetta Univ., Cur. of Univ. Mus., Dir. of Bot. Gardens, Str. S. Paolo, Valetta. Bot., Zool. C. Ex. for Museum and Bot. Garden.

Galizia, Jos. S., B.A., M.D., M.R.C.S., L.R.C.P., M.C.S., 64 Piazza Celsi, Valetta. *Moll.*, *Osteol.* C. Ex.\* Gulia, John, M.D., Gozo Civil Hospital, Gozo. *Bot.*, Zool.

Micallef, V., M.D., Prof. Univ., 159 St. S. Paolo, Valetta. Chem.

Pisani, S., M.D., Chief Gov. Med. Officer, Sans Souci, Marnisi. Numis.

Scoles, Rev. Father, S.J., St. Ignatius Col., Str. Julians, Dir. of Meteo. Obs., Malta. Ast.

Stilon, Hamilton, M.D., Prof., Univ., 23 Str. Zaccaria, Valetta. Pathol., Histol., Bacteriol.

Tagliaferro, Napoleon, Assist. Dir. of Education, Str. Teatro, Valetta. Math., Phys., Philol., Arach., Insects and Fungi injurious to Plants and Trees.

## NETHERLANDS.

Abeleven, T. H. A. J., Sec. de la Soc. Bot. Neerlandaise, Nymwegen. Phæn. Plants, Mosses, Desmids, Diatoms.\*

Aghina, Rev. V. M., Huissen, adjoining Arnhem. Gen. Bot., Ent.\*

Albarda, J. Herman, Leeuwarden. Neuropt.

Ankersmit, H. J. Kok, Botanist, Apeldoorn. Dutch Flora, Bot: Phæn.

and Crypt. Plants, Ferns. C. Herbiers et Graines. Ex.\*

Ankun, Dr. H. J. van. Hoogleeraar aan 's Rijks Univ. te Groningen.

Algemeene Zool.

Bakhuis-Roozeboom, Dr. H. W., Lector, Univ., Leiden. Phys. and Inorg. Chem.\*

Bakhuyzen, H. G. van de Sande, Prof. State Univ., Leiden. Ast. Behrens, H., Prof., State Polytechnic School, Delft. Min., Geol.

Bemmelen, A. A. van, Dir. der Rotterdamsche Diergaarde, Vice-Pres. der Nederlandsche Dierkundige Vereeniging, Rotterdam. Gen. Zool. Bemmelen, Prof. Dr. J. M. van, Dir. Lab., Univ., Noordeinde 50, Leiden.

Inorg. Chem.\*

Bemmelen, Dr. W. van, Assist. Dir. Meteo. Inst., Utrecht. Meteo.\*

Beyerinck, Dr. M. W., Delft. Phytobiol., Bacteriol.\*

Bijleveld, R. Th., Voorhout 88, 's Gravenhage. Algemene Ent.

Bisschop van Tuinen, Dr. K., Lehrer a. d. Reichs Höhere Bürgerschule und das Gym., Zwolle. Phan. and Crypt. Bot., Lepid., Coleopt. C. Ex.\*

Blaauw, F. E., Sec'y. Zool. Soc. of Amsterdam, 's Graveland, near Hilversum. C. live animals. Would like rhea macrorhyncha and American waterfowl.\*

Boerlage, Dr. Jacob G., Conserv. 's Rijks Herbarium, Leiden. Bot: Fl. Malayan Archipelago.

Bonnema, Ane Haitzes, Cand. Arts, Groningen. Mic., Photog., Eth., Histol. C. Ex. Bonnema, Jan Haitzes, Assist. der Geol., Groningen. Palæo., Geol., Min., Crystall., Lithol., Protozoa. C. Ex.

Bos, Dr. Hemmo, Leeraar aan de Rijkslandbouwsch, Wageningen. Formicida.\*

Bos, Dr. J. Ritzema, Member Internat. Phytopathol. Commission Prof. Zool., Agric. Coll., Wageningen. Injurious Insects and other Lower Animals, Plant Diseases.\*

Bosscha, Ex-Prof. Dr. J., Sec. of Dutch Soc. Sci., Haarlem. Phys.

Brandt, A. van den, Venlo. Lepid.

Brants, A., Eusebius Buitensingel, Arnhem. Lepid.

Bremer, Dr. G. J. W., Rotterdam. Chem. Bruna, H. M., Predikant te Purmerend. Lepid.

Bruna, H. M., Fredikant te Furmerend. Lepte.
Bruyn, A. J. de, Lieut.-Col., 's Gravenhage. Dutch Flora.
Büttikofer, J., Conserv. of the Mus. of Nat. Hist., Leiden. Zool., Aves.\*
Calker, F. J. P. van, Prof. Univ., Groningen. Min., Geol.\*
Calkoen, Dr. H. J., Haarlem. Fungi.\*

Campert, Dr. J., Amsterdam. Phys.

Cankrien, A., Kralingen. Lepid.

Cappelle, Dr. H. van, Teacher High Burghal Sch., Sncek. Geol. of the Neth.

Captcyn, S. C., Groningen. Ast.

Cattic, J. Th., Dr., Arnhem. Cordes, J. W. H., Appeldoorn. Flora Malayan Archipelago.

Costerus, Dr. J. C., 10 Oosteinde, Amsterdam. Bot., Teratol.\*
Cramer, W. J. C., Putman, Velp. Lepid.
Destrée, Miss C. E., 's Gravenhage. Fungi.\*
Doesburgh, G. de Vries van, Kralingen, Rotterdam. Zool., Orn., Ent.,
Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.

Doesburgh, Dr. Th. van, Prés. de la Soc. Batave de Philos., Expérimen-

tale, Rotterdam. Elect.\*
Dorp, Dr. W. A. van, Amsterdam. Chem.

Doyer, Dr. J. W., Dir. High Burghal Sch., Amerstoort. Theoret. Chem. Eeden, F. W. van, Dir. du Musée Colonial et du Musée des Beaux Arts appliqués à l'Industrie, Redacteur du "Flora Batava." Harlem.

Engelenburg, L. C. F. E., Dir. R. Dutch Meteo. Inst., Utrecht. Meteo. Engelman, Th. W., Prof. Histol., Physiol. Laby., Utrecht. Physiol. Protozoa.

Erens, Alphonse, Dr. en Sci. Nat., Fauquemont, Limbourg hollandais. Strat. Geol., Lithol. (Erratica). C. Ex.\* Essen, J. L. C. van, Marktstraat 3, Arnhem. Coleopt.

Essen, J. L. C. van, Marktstraat 3, Arnhem. Coleopt.

Everts, Dr. Ed. J. G., Leeraar aan de Hoogere Burgerschool, Stationsweg
79, 's Gravenhage. Europ. Coleopt.\*

Fijnje, T. G. W., Haupt Ingenieur und Ministerialrath, Nijmegen.
Fokker, A. J. F., Dr. en droit, Zierikzee. Hemipt. C. Ex.\*

Forster, Dr. J., Prof. Univ., Nic. Witsenkad 46, Amsterdam. Hygiene.
Franchimont, A. P. N., Prof., Univ., Leiden. Org. Chem.
Geuns, Dr. W. A. J. van, Koninginnegracht 15, 's Gravenhage.
Giltay, Dr. Eduard, Wageningen. Bot., Mic.
Goethart, Dr. J. W. Chr., Hoorn.
Graaf, G. M. de. Heerengracht 55 Leiden. Lepid.

Graaf, G. M. de, Heerengracht 55, Leiden. Lepid. Graaf, H. W. de, Noordeinde 123, The Hague. Micro-Lepid. and Avesindigenæ.\*

Gratama, Dr. H. D., Polytechn. School, Delft. Chem.

Greshoff, Dr. M., Barendz Straat 2, 's Gravenhage (Holland). Org. Chem., Bot., Products of Malayan Plants.\*

Grevers, John E., Sec. Odontol. Soc. of Holland, Amsterdam.

Grevers, John E., Sec. Odontol. Soc. of Holland, Amsterdar Grinwis, Dr. C. H. C., Prof. Univ., Utrecht. Math., Phys.\* Groll, H. W., Haarlem. Coleopt., Hemipt., Bot.\* Grothe, W. K., Zeist. Guichcrit, W. J., 's Gravesende, 's Gravenhage. Coleopt.\* Gunning, J. H., Prof. Univ., Amsterdam. Chem. Guye, Dr. A. A. G., Prof. Univ., Amsterdam. Otology.\* Haar, Dirk ter, Warga. Lepid., Orthopt. Haga, H., Prof., Univ., Groningen. Phys.\* Hagedoorn, A. D., Amsterdam. Geog. Halbertsma, Dr. T., Prof. Univ., Utrecht. Gynæcol. Harmens, A. War. Analy Chemist Sunistraat 146. Amster.

Harmens, A. Wzu., Analy. Chemist, Spuistraat 146, Amsterdam. Chem., Mic.\*

Hasselt, Dr. A. W. M. van, Amsterdamsche Bierkade 15, Gravenhage. Araneiden.

Heerelt, Baron P. F. van, Dir. R. Dutch Meteo. Inst., Utrecht. Marine

Heinsius, Dr. H. W., Teacher Nat. Hist., 1st Sec. Dutch Phytopathol. Soc., Arnhemsche Straat, A. 45, Amersfoort. Bot: Crypt. Plants, Fungi, Mic., Photog., Vegetable Disease (Phytopath.). C. Ex.\*
Heylaerts, F. J. M., Breda. Lepid.
Hoek, Dr. P. P. C., Scientific Inspector of Fisheries, Dir. Zool. Station,

Sec. Neth. Zool. Soc., Helder. Ichthyol., Crustacea.\*
Hoeven, Dr. J. van der, Rotterdam. Coleopt.
Hoff, Dr. J. H. van 't, Prof. Univ., Amsterdam. Chem.

Hoffmann, Dr. C. K., Hoogleeraar aan 's Rijks Univ., Leiden. Emb. Honert, J. van den, Plantage Muidergracht 32, Amsterdam. Lepid. Hoogewerff, S., Prof., State Polytechnic School, Delft. Chem.
Hoop, D. van der, Zuid blaak 64, Rotterdam. Coleopt. C. Ex.
Horst, Dr. J. H. van der, Prof. Veter. Sch., Utrecht. Bot., Pharm.
Horst, Dr. R., Conservator Mus. Nat. Hist., Nieuwsteeg 2, Leiden. Invert., esp. Worms. Ex.\* Hoorweg, Dr. J. L., Utrecht. Phys. Hubrecht, A. A. W., Prof. Zool., Univ., Utrecht. Zool., Emb., Anat. Hülsmann, Dr. J. H. H., Amsterdam. Chem.

Jaspers, J., Jr., Breestraat 331, te Beverwijk. Indian Ent. Jentink, Dr. F. A., Director of the Museum of Natural History, Leiden. Zool., Mammalia.\*

Joncheere, J. C. J. de, Voorstraat D 368, Dordrecht. Lepid.
Joncheere, N. A. de, Dordrecht. Lepid.
Jonkman, H. F., Dr. Phil, Utrecht. Bot.\*
Jordens, D. J. R., van Nahuijsplein, F. 3471, Zwolle. Lepid.\*
Julius, Dr. V. A., Prof. Univ. of Utrecht. Phys.
Julius, Dr. W. H., Prof. Univ., Amsterdam. Physics.
Kallenbach, Dr. F. W. O., Rotterdam. Lepid.
Kapteijn, J. C., Prof. der Ast. a. d. Univ., Groningen.
Kate. Herman F. C. ten. Ph.D., M.A., Scheveningen. Zo.

Kate, Herman F. C. ten, Ph.D., M.A., Scheveningen. Zool., Anth., Arch., Geol., Ethnog.\*

Kerbert, Coenraad, Ph.D., Dir. Royal Zool Soc. "Natura Artis Magistra." Amsterdam. Zool., Gen. Biol., Morphol., Emb., Anat., Eth., Vert.,

Kinker, J., Keirersgracht 580, Amsterdam. Diatoms. C. Ex.
Kinker, J., Keirersgracht 580, Amsterdam. Diatoms. C. Ex.
Kolk, Dr. J. L. C. Schroeder van der, Teacher High Burghal Sch.,
Deventer. Erratica.
Koningsberger, Dr. J. C., Assist. Bot. Lab., Utrecht.
Kontayer, D. J. Prof. Univ. Amsterdam. Math. Act \*

Korteweg, D. J., Prof. Univ., Amsterdam. Math., Ast.\* Kuenen, Dr. J. P., Conservator Phys. Lab., Leiden. Phys.\*

Lako, D., Zwolle. Dutch Flora. Langen-Wendels, Rev. Father G. de, Huissen, adjoining Arnhem. Palæo., Geol., Min. C.\*

Leesberg, A. F. A., Gedempte Burgwal 33, Gravenhage. Coleopt.

Leeuwen, Dr. J. van, Jr., Hooglecraar aan 's Rijks Univ. (Pieterskerk-Leeuwen, Dr. J. van, Jr., Hooglecraar aan 's Rijks Univ. (Pieterskerkgracht 11), Leiden. Lepid.

Lidth de Jeude, Dr. Th. W. van, Cons. bij 's Rijks Mus. van Natuurlijke Historie, Boommarkt, Leiden. Herpetol.\*

Lindo, Miss C., Conserv. Colon. Mus., Haarlem.

Lodeesen, J. W., Tulpstraat 6, Amsterdam. Lepid.

Loman, Dr. J. C. C., Leidschekade 96, Amsterdam. Zool.\*

Lorentz, Dr. H. A., Prof. Univ., Leiden. Math., Phys.

Lorié, Dr., Privat-Docent, Geol. Museum, Utrecht. Geol. of the Netherlands\*

Lycklama à Nycholt, Dr. T., Westersingel 83, Rotterdam. Lepid. Maitland, R. T., Commelinstraat 17, Amsterdam. Ent.

Man, Dr. J. C. de, Senior, Middelburg. Anth., Ool., Crania. C.\*

Man, Dr. J. C. de, Senor, Middelburg. Anth., Och., Crama. C.\*
Man, Dr. J. G. de, Middelburg. Crustacea, Helminthol.\*
Martin, K., Prof Univ., Leiden. Min., Geol.\*
Mayer, Prof. Dr. Adolf E., Dir. Station Agronomique, Wageningen. Chem. Gen. Biol.

Meerderwoort, Dr. J. L. C. Pompe van, Bergen-op-Zoom.
Meijere, Dr. J. C. H. de, Spinhuissteeg 5, Amsterdam. Dipt. C. Ex.\*
Mellink, Dr. J. F. A., Leiden. Bot.
Meyeng. Capt. Microwl. Prince Markingham. Ent. Coloret \*

Merens, Capt. Meinard, Prins Hendrikkade, Amsterdam. Ent., Coleopt.\* Middendorp, Dr. H. W., Prof. Univ., Groningen. Pathol. Anat., Pathol. Gen.

Modderman, Prof. R. S. Tjaden, The Hague. Chem.\*
Molengraaff, Dr. G. A. F., Prof., Univ., Amsterdam. Min., Crystall. C. Min. and Rock spec.

Mil. and Rock spec.

Moll, Dr. J. W., Prof. Bot., Botanical Gardens, Groningen. Bot.\*

Mulder, Dr. E., Prof. Univ., Utrecht. Org. Chem.\*

Onnes, H. Kamerlingh, Prof. State Univ., Leiden. Exper. Phys.\*

Oudemans, Jsz. Dr. A. C., Dir. des Zool. Gartens zu Haag, Mitglied der Niederländischen Ent. Gesellschaft, der Niederl. Zool. Gesellschaft, und des Niederl. Naturwiss. Congresses, zu Haag.\*

Oudemans, Dr. A. C., Polytechn School, Delft. Chem.\*

Oudemans, Dr. C. A. J. A., Prof. Univ., Sec. of the Royal Academy of Sciences, Amsterdam. Bot., Mycol.\*
Oudemans, Dr. J. A. C., Dir. of Observatory, Prof. Univ., Utrecht. Ast.,

Geodesv.\*

Oudemans, Dr. J. Th., Privat-Docent., Univ., Middenlaan 78, Amsterdam. Zool., Ent.\*

Pijp, W. Assist. Bot. Lab., Groningen.

Pitsch, Dr. Otto, Prof. Agric., Agric. Coll., Wageningen. Agric. Plaats, Dr. J. D. van der, Prof. Vet. Sch., Utrecht. Chem.

Pleyte, C. M., Dir. Ethnog. Mus. of the Society "Natura Artis Magistra," Amsterdam.

Pleyte, Dr. W., Dir. Arch. Mus., Leiden. Arch. Poll, J. R. H., Neervoort van de, Heerengracht 476, Amsterdam. Côleopt.

Ras, Dr. P. H. J. J., Velperweg 56a, Arnhem.
Rauwenhoff, Dr. N. W. P., Prof. Univ., Dir. Bot. Gardens, UtrechtAnat. and Physiol. of plants, Cryptogams.\*

Reinders, G., Prof. Chem. and Geol., Agric. Coll., Wageningen. Chem., Geol.

Reuvens, C. L., Ph.D., Conserv. Mus. Nat. Hist., Leiden. Vert., Ichthyol.\*

Ringeling, H. G., M.D., 2. Bilderdijkstr. 38, Amsterdam. Bacteriol.\*
Ritsema, C. Czn., Mus. Nat. Hist., Rapenburg 94, Leiden. Articulates.\* Ritzema, Bos, Dr. J., Member Internat. Phytopathol. Commission. Prof. Zool., Agric. Coll., Wageningen. Injurious Insects and other Lower Animals. Plant Diseases.\*

Roelofs, W., Rijnstraat 20, Gravenhage. Curculioniden. Roos, P. F. van Hamel, Dr. Phil. nat., Analyt. Chemist, Rédacteur en chef de la Revue Internationale des Falsifications, 146 Spuistraat, Amsterdam. Chem., Mic. Desires communications concerning adulterations of food, etc. Ex. with chemical Journals.\*

Rosenberg, Dr. Aem., Prof., Univ., Utrecht. Anat.\*

Rossum, Dr. A. J. van, Eusebiusplein, Arnhem. Ruge, Georg, Prof. Dr., Anat. Anstalt, Amsterdam. Anat., Mammals. Ryckevorsel, Dr. E. vau, Rotterdam. Terrestrial Magnetism.
Saltet, R. H., Doct. Med., Westeinde 7, Amsterdam. Hygiene.
Sanger, Dr. W. M. H., Prof. Univ., Groningen.\*

Schepman, M. M., Rhoon near Rotterdam. *Mollusks*. C. Ex. Schmeltz, J. D. E., Cur. Ethnog. Museum, Rédaction Intern. Archives für Ethnographie, Leiden. Ethnog., Ethnol., Anat., Zool., Geog.

Schols, Dr. Ch. M., Prof. Polytechnic College, Delft. Math., Geod.\*

Schreinemakers, F. A. H., Leiden. Phys. Chem.\* Schubärt, Dr. J. W., Utrecht.

Seipgens, Emile, Leeraar aan de Hoogere Burgerschool, Zoeterwoudschesingel, Leiden. Coleopt.
Serrurier, L., Dir. Ethnog. Mus., Leiden. Chem.
Six, G. A., De Ruiterstraat 65, Gravenhage. Hymenopt.

Sluiter, Dr. C. P., Prof. Zool., Univ., Amsterdam, Alexanderkade. Echinoderms.

Snellen, Dr. II., Prof. Stat. Univ., Utrecht. Ophthalmol. Snellen, Dr. Maurits, Chief Dir. Royal Dutch Meteorological Inst., Utrecht.

Meteo.\*

Snellen, P. C. T., Wijrhaven 45, Rotterdam. Lepid.
Snijders, J. A., C.J.Z., Prof. State Polytechnic School, Delft. Phys.
Spronek, Dr. C. H. H., Prof. Univ., Utrecht. Pathol.
Stadt, Dr. H. van de, Dir. der Hoogere Burgerschool te Arnheim. Meteo., Phys.

Stolk, J. B. van, Schie 23, Rotterdam. Lepid.

Suringar, Dr. W. F. R., Prof. State Univ., Dir. Bot. Gard., Leiden. Bot., Dutch Flora, Algæ.

Themaat, Dr. M. C. Ver Loren, Huize Schothorst, te Hoogland, hij Amers-

foort. Algemeene Ent.

Tubergen, C. G. van, Jr., Haarlem. Bot: Phan. Plants, Hort., Mic. C. Ex. Corr. solicited on Bot. subjects.

Uijen, H., Priemstrant, Nijmegen. Lepid.

Verschaffelt, Dr. Ed., Assist. Bot. Lab., Peterkiesstraat 14, Haarlem.

Verster van Wulverhorst, F. A., Administrateur Mus. Nat. Hist., Rapen-

burg 40, Leiden. Veth, Dr. H. J., Boezemsingel 118, Rotterdam. Coleopt. C. Ex. European for N. American specimens.\*

Veth, Dr. P. J., Oud-Hoogleeraar, Villa Maria, Utrechtscheweg 22, Arnhem.

Vink, Johan P., C. of H. Duys, Nijmegen. Lepid.

Visser, P. C., Sec. R. Dutch Meteo. Inst., Utrecht. Phys., Meteo.\*

Vosmaer, G. C. J., Ph.D., Utrecht. Zool., Morphol., Emb, Anat.\* Vries, Dr. Hugo de, Member of the International Phytopathol. Commission; Prof. in the Univ. of Amsterdam. Phytopathol., Physiol., Biol. of Plants.

Wries, Johannes de, P. C. Hooftstraat 82, Amsterdam. Lepid. C. Ex.
Vnyck, L., Assist. Bet. Lab., Leiden.
Wnals, J. D. van der, Prof., Univ. Amsterdam. Phys.
Wusmann, Erich, S. J., Exacten, b. Roermond, Limburg. Myrmecophilous and Termitophilous Insects, Coleopt. esp. Staphylinidæ. C.

Weber, Max, Prof. Zool., Amsterdam. Comp. Zool.

Weijtlandt, A. J., Westzaan. Coleopt.

Wenckebach, Dr. K. F., Utrecht. Morphol., Emb., Vert. Anat. Westmaas, E. A. de Roo van, Hnize Daalhuizen, Velp. Lepid.

Wichmann, C. E. A, Prof., Univ, Utrecht. Min., Geol.
 Wijhe, Dr. J. W. van, Prof. Anat., Rijks Univ., Groningen. Emb., Morphol., Anat.\*

Wijk, H. L. Gerth van, Leeraar aan de Hoogere Burgerschool te Middelburg. Hymenopt. aculeuta.

Wijsman, Dr. H. P., Prof. Phurm. and Toxicol., Univ., Leiden \* Wirtz, Dr. A. W. H., Dir. of the Veterinary College, and of the State Vaccine Establishment, Utrecht.\*

Wulp, F. M. van der, Sec. Dutch Ent. Society, Trompstraat 154, The

Hague. Ent.: Dipt. C. Ex.

### NORWAY.

Appellöf, Dr. Ad., Conservator of the Mus. of Bergen. Zool. Arbo, Dr., Sanitäts major, Christiansand, S. Anth. Bahr, Henrik E. S., Stavanger. Zool.\*

Bergström, H. A., Hort., Agrie. Inst., Aas, Christiania.

Bjerknes, Prof. Dr. C. A., University, Christiania, Gronne Gade 6. Math.\*

Björlykke, K. O., Geol. Survey of Norway, Christiania. Palæo., Geol. C. Ex.\*

Blehr, F. W., Dr. jur., Christiania. Orn., Ool.\*

Blytt, Axel, Prof., Univ., Christiania. Bot., Geog. Dist. of plants, Mycol., Geol. Time.

Boeck, Dr. Caesar, Christiania. Bacteriol.

Brögger, W. C., Prof. Univ., Christiania. Geol., Min. Brunchorst, J., Dr. Phil., Curator of Mus., Dir. of "Naturen," Magazine of Nat. Sei., Bergen. Bot., Physiol., Fungi.

Buch, S. A., Sec'y of the Soc'y for promoting Norwegian fisheries, Bergen. Zool., Fishes.

Caspersen, Ove, Christiania. Photog.
Collett, Robert, Prof. of Zool., and Dir. of the Zool. Museum of the Univ.,

Christiania. Vertebrates.

Danielssen, Dr. Daniel Cornelius, Chief Physician, Pres. of the Mus., Bergen. Marine Invertebrates. Ex. for the collection of the Museum. Foslie, M., Cur. Mus., Trondhjem. Algology. C. Ex.\*

Fridtz, R., Chem. Lab., Christiania. Bot.

Friele, Herman, Dir. of the Museum, Bergen. Malacol. C.

Gade, Dr. F. G., Prosector of Hist., Demonstrator of Mie., Anat. Inst., Christiania.\*

Geelmuyden, H., Prof., Univ., Christiania. Ast.

Grieg, James, Chr. Mus., Bergen. Zool. Guldberg, Prof. Dr. Cato M., Univ., Christiania. Math.\*

Guildberg, Fredrik Osear, Dir. of Schools, Trondhjem. Gen. Biol., Orn.\* Guildberg, Gustav A., Prof., Dr. Med., Dir. Anat., Univ., Christiania. Vert. Anat., Anth., Mammals, Cetology. C. Ex.\* Gustafson, G. A., Cur., of Mus., Bergen. Arch. Hagemann, Axel, Forstassist., Alten. Arctic Coleopt. C.

Hansen, Andreas M., Ph.D., Assist. at the Univ. Library, Christiania. Geol.\*

Hansen, G. Armauer, Chief Physician, Bergen. Zool., Annelids, Marine Invert.\*

Heiberg, Prof. Hj., Univ., Christiania. Bacto. Helland, A., Prof., Univ., Christiania. Geol. Bacteriol.

Helliesen, Tor, Curator Stavanger Museum, Stavanger. Mammals, Orn., Ent. Natural objects for the coll. of the Mus. C. Ex.\*

Hiorthdal, Th., Prof., Univ., Christiania. Chem. Hjort, Dr. Johan, Christiania. Zool., Histol.

Holst, Dr. A., Christiania. Bacteriol.

Holtsmark, Bernt, Director, Agric. School Sem., Asker bei Kristiania

Agric. Kaalaas, Baard, Cand. real. Gjertsens skole, Christiania. Mosses. C. Ex.

Kiaer, F., M.D., Christiania. Mosses.

Koller, Th., Dir. Agrie. Inst., Aas, near Christiania. Landmark, A., Gov't Inspector of Fisheries, E.A.T., Christiania. Orn.,

Bot. C.
Landmark, Rev. J. R., Flakstad. Bot. C. especially of Arctic Zone.\*
Landmark, J. T., Prof. Agric. Inst., Aas pr. Kristiania. Agric.

Misvaer, H., Drontheim. Bot. Mohn, H., Prof. Dr., Univ., Christiania. Meteo. Nansen, Fridtjof, Ph.D., Christiania. Zool., Histol.

Nielsen, Dr. Y., Prof. Univ., Christiania. Ethnog. Norman, J. M., Forstmæster, Larvik. Arctic Norwegian Phæn. Flora, Lichenol. C.\*

Növik, Peter, Christiania. Ed. and See. of the Norwegian Hort. Soc. Phan. and Crypt. Plants, Ferns, Hort. C.\*

Oeyen, P. A., Christiania. Geol.

Olsen, Dr. Johan, Christiania. Fungi.
Pihl, O., C.E., Dir. Christiania Gas Works, Christiania. Ast.\*
Reusch, Dr. Hans., Dir. Geol. Survey of Norway, Christiania. Geol.,

Lithol., Photog.\*
Rygh, O., Prof. Arch., Univ., Christiania.
Sars, Georg O., Prof. de Zool., Univ., Christiania. Zool., Gen. Biol.,
Geog. Dist., Morphol., Emb., Anat., Anth., Crustacea, Moll., Ra-

Schiötz, O. E., Prof. Phys., Universität, Christiania. Geol., Phys.\* Sehmelek, Ludvig, Christian d. 4de Gade 4, Christiania. Min., Analyt. Chem., Mic. C. Ex.\*

Schneider, Jacob Sparre, Con. Mus., Tromsö. Ent : Arctic Lepid., Crus-

tacea, Mott., Geog. Dist. C.\* Schöyen, W. M., Chr. (Konservator) and State Ent., Zool. Mus., Univ.,

Schooler, W. M., Chr. (Robservator) and State Ent., 2001. Mas., Chr., Christiania. Fungi, Ent.\*
Schoeber, T. Fr., Univ. Observ., Christiania. Ast.\*
Schoeber, T. Fr., Univ. Observ., Christiania. Ast.\*
Schoeber, T. Fr., Univ. Observ., Christiania. Ast.\*
Schoeber, T. Fr., Univ. Observ., Christiania. Phys. and Agric. Chem. C. Chem. substances.
Smith, K. F., Kistrand. Arctic Lepid. and Moll., Postage Stamps.

Steen, Aksel, Sec. Meteo. Inst., Christiania. Meteo.\*

Steen, Aksel, Sec. Meteo. Inst., Christiania. Meteo.\*
Storm, V., Cur. Mus., Trondhjem. Zool.\*
Thesen, Oluf, Prof., Agrie. Inst., Aas. Mic., Zool., Vert. Anat.\*
Thomassen, T. Ch., Bergen. Norwegian Min. and Geol.
Thome, Johan, M.D., Fredrikstad. Birds and Eggs.
Thome, Wilhelm, M.D., Stenkjer. Insects. C. Ex.
Tornoë, H., Univ., Christiania. Chem.
Torup, Dr. Sophus, Prof. Univ., Christiania. Physiol.
Vogt, J. H. L., Prof., Univ., Christiania. Metall.\*
Waage, Prof. P., Christiania. Chem.
Wille. Dr. N., ord. Prof., Univ., Dir. d. Bot. Garten. Christiania.

Wille, Dr. N., ord. Prof., Univ., Dir. d. Bot. Garten, Christiania. Eot :

Fungi, Algæ, Desmids. C. Ex.\* Zetlitz, K. A. L., Tönset. Anat., Zool.

## PORTUGAL.

Bastos, Dr. Henrique Teixeira, Prof. of Fac. of Philos., Arcos do Jardin 15, Coimbra. Anth., Meteo.

Bensaude, Alfred, Doet. ès seiences, Prof., Membre de la Commission des travaux geologiques, 2 rua Saraiva de Carvalho, Lisbonne. Min., Crystall., Lithol. C. Ex.\*
Campo Bello, Conde de, Acad. Polytechnic, Porto. Physic.

Carqueja, Bento, Dir. du Jardin Bot. de l'Ecole Normale de Porto et du journal "O Commercio do Porto." Phæn. and Crypt. Bot., Ferns,

Geol., Min. C. Ex.\*

Carvalho Monteiro, Antonio Augusto de, D.S., LL.D., rua do Alecrim 70, Lisbon. Lepid. of the globe. C. Ex. Offers European, Brazilian, and African (from Portuguese colonies) spec. for those of Madagascar, India, China, Ceylon, Australia, N.A., etc.

Choffat, Paul, 113 rua do Arco a Jesus, Lisbon. Invert. Palæo., Geol. C. Corrêa Barata, Dr. Francisco Augusto, Prof. Univ., Coimbra. Org.

Chem.

Costa Sequeira, Pedro Vietor da, Insp. des Mines, Lisbon. Mines.

Cotter. J. C. Berkeley, Attaché à la Direction des Travaux Géol. du Portugal, 113 R. do Areo a Jesus, Lisbon. Tert. Palæo.\*

Danvers, Alan, 60 Travessa Santa Justa, Lisbon. Elect.

d'Aranjo e Castro, J. A., Coimbra. Bot.

Delgado, Joaquiui Filippe Nery. Inspector des Mines, Dir. de la Commission des travany géol., 113 Rua do Arco a Jesus, Lisbon. Palæo., Geol., Anth., Arch.\*

Ferreira da Silva, A. J., Membre de l'Acad. royale des Sci. de Lisbonne, Prof. de Chimie organ, et analyt à l'Ecole Polytechnique de Porto, Dir. du Lab. Municipal et Vérificateur du gaz, Porto Chem. Ferreira Roquette, Francisco, Prof, Eschola Polytechnica, Lisbon. Geol.,

Mines.

Ficalho (Comte de), Prof. de Bot. à l'Ecole Polytech., Dir. du Mus.

d'Hist. Nat., Lisbonne. Bot. Fonseca Monteiro, Severiano Augusto da, Prof. Inst. Industrial, Lisbon. Min.

Garrido, Dr. Antonio de Meirelles, Prof. Physics, Patco do Castilho 5, Coimbra. Elect., Optics.

Girard, Albert Alex., Conserv. du Musée Zool., Mus. d'Hist. Nat., Ecole

Polytech., Lisbon. Malacol., Ichthyol. C. Ex. Gomes, Dr. Francisco José de Sousa, Prof. Chem., Largo da Mathematica

4, Coimbra. Ino g. Chem. Gomes, Jacintho Pedro. Attaché an Musée d'Hist. Nat., Eschola Poly-

technica, Lisbon. Min., Petroq. Gonçalves Gunnaraes, Dr. A. J., Prof. Min. et Géol. à l'Univ., Rue Larga 11, Coimbra, Palæo., Geol, Min., Philol.\* Henriques, Dr. Julio Augusto, Prof. Bot., Edificio de S. Bento, Coimbra.

Lima, Dr. W. de Sonza Pereira, Prof. de Géol. à l'Acad. Poiytechnique, 137, Cedofeita. Oporto. Geol., Veg. Palæo.
 Luzo da Silva, Angusto, Prof., Lyceum, Oporto. Bot: Crypt.

Machado Guimarães, Dr. Bernardino Luiz, Prof. Univ., Coimbra. Agric. Mattozo Santos, Fernando. Prof. Zool., Polytech, School. Zool. Mus., Lishon. Morph., Emb., Anat, Herpetol., Histol., Ent., Myrio-

poda.\* Oliveira, Dr. Manoel Paulino de, Prof. Univ., Coimbra. Invert.\*

Pereira, Continto, Prof. Substitut de Bot., Ecole Polyt., Lisbon. Pitta, Dr. José Pereira de Paiva, Prof. Portuguese Ecclesiastical Law,

Univ., Coimbra. Philol. Rodrigues, Dr. José Maria, Prof Theol., Univ., Coimbra. Philol.\* Santos Viegas, Dr. Autonio dos, Prof. Univ , Coimbra. Phys. Tait, Wm. C., C.M.Z.S., Oporto. *Mic.*, Zool., Orn., Ool., Herpetol. Vicers, Dr. Luiz dos, Edificio da Univ., Coimbra. Anth. Vicirc, Dr. Adriano Xavier Lopez, Prof. Medicine, Coimbra. Vert.

# ROUMANIA.

Antipa, Gr., Dr., Mus., Bucharest. Zool.\* Annpa, Gr., Dr., Mils., Bhenarest. Zool.\*
Assaky, Georg, Prof. Dr., 25 Pensionnat. Bucharest. Emb., Anat.
Cobalcesen, Gr., Prof. de Géol. et Min., Univ., Tassy. Geol., Palæo.
Cosmovici, Dr. Leon C., 31 Strada Eternitate. Tassy. Prot. de Zool.,
Anat. comparée et de Fisiol., A la Faenle des Sciences de l'Univ.
Georgesen, Hie, Hülfsarbeiter am botan. Institut, Bucharest. Membre de

plusieurs Societés, Bucharest, Strada Verde 5. Bot: Phæn. Plants.\* Leon, Dr. N., Prof. de Zool, à la Faculté de Méd. cine de Tassy. Lieherdopol, Prof. J. P. (Bura), Chaussée Dorobanti, Bucharest. Geol .. Bot C. Ex. fossils, moll. and rocks of all countries.

Papovici, A., Asst. am Botan. Inst., Bueharest.

Vladescu, Michel, Prof. de Bot., Univ., Tassy. Bot : Phan. and Crypt. Piants, Ferns, Fungi, Alga, Desmids, Gen. Biol. C. Ex.

### RUSSIA.

(SEE ALSO RUSSIA IN ASIA.)

Agguéenko, Wladimir, Privat-docent à l'Univ. de St. Petersburg. Phan Bot.\*

Alexeveff, Pierre, Prof. Univ., Kiew. Chem. C. Ex.

Anziferoff, Paul G., Dir. du Jardin Imp. à Nikita, Crimea. Hort., Zool., Orn , Tax., Ent.\*

Ballion, Erneste, Conseiller d'Etat Actuel, Novorojsiisk sur la Mer Noire

an Cancase. Coleopt. C. Ex. Barfurth, Dr. Dictrich, Prof. Anat., Emb. and Hist., Dorpat. ropods, Cyclostoma. Ex.

Bataline, Alexandre, Prof. and Dr., Jardin bot. Impériale, St. Petersburg.

Beck, Dr. Alexander, Prof. am Baltischen Polytechnicum, Riga.

Belajeff, Wladimir, Varsovie, rue Nowogrodzka 36, Jardin pomologique.

Belikoff, Serge, Colonel, Prof. de l'Ecole Militaire d'Alexandre, Moscow. Geol., Photog., Ast., Topog.\*

Belopolsky, A., Pulkowa. Ast.

Belopoisky, A., Pulkowa. Ast.

Bewad, Dr. T., Prof. Chem., Inst. of Agronomy and Silviculture, Norwaja Alexandria, Gouv. Lublin. Org. Chem.

Bianchi, Valentin, Curator Zool. Mus., St. Petersburg, Imperial Acad. Sci., Zool Mus. Orn., Lepid., Coleopt., Orthopt.

Bicl, Dr Johannes, Analyt. Lab., St. Petersburg. Analyt. Chem.\*

Bispen, Théodor, Moika 42, Qu. 41, St. Petersburg. Lepid.

Bobritzky, N., Prof. Zool. Zoot. Mus., Kiew. Emb., Invert.

Bobylew, D., Prof. der Mechanik an der Univ. zu St. Petersburg.

Bogdanow, Anatole, Prof. Vert. Zool., Univ., Moscow, Dir. Zool. Mus. Gen. Biol., Anth.

Borgman, J. J., Prof. Physics and Electro-technics, Univ. und Techn. Inst., St. Petersburg.\*

Borodine, Jean, Dr., Prof. de Bet. à l'Inst. Forestier et à l'Univ. de St.
Petersburg. Bot., Mic.\*
Bramson, K. L., Gymna-ial Prof., Ekaterinoslaw. Coleopt. (esp. Carabida, Calosoma, Carabus, Cychrus), Lepid., Hymenopt. Ex. and for sale

Brandt, Dr. Alex., Kharkov. Zool., Comp. Anat.\*

Branke, Dr. von, Prof. Silviculture, Inst. Agronomy and Silviculture, Norwaja Alexandria, Gouv. Lublin. Silviculture, Fungi. Brediehin, Dr. Theodor, Pulcowa Observ., St. Petersburg. Ast.

Büchner, Eugen, Conservator am Zool. Mus. der Kaiserlichen Acad. der Wissenschaften zu St. Petersburg. Mammals.\*

Buczinski, Pet., Odessa. Emb., Vert. Bunge, Nicolaus, Prof. Technischen Chem. a. d. Univ., St. Vladimir, Kiew. Chem.\*

Cera-ki, Prof. W., Moseow. Ast. Chmiclewsky, Vincent, Prof. Bot., Inst. Agronomy and Silvienlture, Norwaja Alexandria, Gonv. Lublin. Bot., Fungi, Algæ, Desmids, Hort., Bot. of forest trees.

Cholodkovsky, Nicolas, Doct. en Zool.. Prof. à l'Inst. forestier et à l'Acad. imp. de Med., St. Petersburg. Zool., Morphol., Emb., Invert. Anat., Ent., Hemipt.\*

Chroorostansky, C., Univ. St. Petersburg.

Chwolson, Orest, Prof. de Physique à l'Univ. et à l'Inst. Elect., St. Peters-

Chwoson, Orest, 1701. de Physique a l'Univ. et a l'Inst. Elect., St. Petersburg, W. O. 12 L. No. 7, Qu. 3. Physics, Elect., Meteo.
Clausen, Alex., Goursouff, Crimée. Hort.
Czerniawski, Prof., Suchum Kalé, Cancasus. Arch., Zool.
Dogiel, Alex., Prof. der Histol. u. Emb. a. d. Kaiserl. Univ., Tomsk, Siberia. Emb., Histol.\*
Dokoutchaev, Bašile, Prof. de Min., à l'Univ. de St. Petersburg.
Dostoiciosky, Dr., Prosect. Histol. and Embryol., Med. Acad., St. Petersburg.

burg.

Dubiago, D., Kasan. Ast. Dziedzieki, Harry, M.D., N. 23 Chlodna Str., Warsaw, Poland. Dipt., Mycetophilidæ.

Erschoff, Nicolas, Wassili Ostrw. 19, Line 12, St. Petersburg. Lepid. C. Ex.\*

Famintzin, André, Prof., Membre de l'Acad. d. Se. de St. Petersburg, Wassili Ostroff, 8th Line, No. 17.\*

Faussek, Victor, Privat-docent de Zool. à l'Univ. de St. Petersburg. Emb., Invert. Anat.\*

Fischer de Waldheim, Dr. Alex., Prof. ord. à l'Univ., Conseiller d'Etat actuel, Varsovic, Jardin Botanique. Bot., Fungi.
Fortunatow, Dr. A. M., a. o. Prof. Anat., Univ., Kasan.
Ganin, Dr. M., Prof. Dir. Zool. Samlg., Warsaw. Spongilla.

Glasenapp, Maximilian, Prof. am Polytechnieum, Riga. Chemische Tech-

nologie, Waarenkunde, Photog.\*
Gobi, Christophorus, Prof. Dr., Univ., St. Petersburg. Crypt. Bot.
Godlewski, Emil, Prof. an der Univ., Krakan. Physiol. of Plants.
Golowine, E., Zool. Lab., Univ., St. Petersburg. Emb.
Goronowitsch, N., pract. Arzt, Kaiserliche Naturforsehende Gesellschaft

zu Moskau. Zoomorphologie.

Grabowski, Nicolaus, Władikawkas, Caucasus. Bot., Hort.

Grimm, Dr. Oscar von, St. Petersburg, [Inspector der Fischereien Russlands, Redacteur der Russ. Fischerei Zeitung. Ichth., Biol.\* Grinenko, Alexander, Untersuchungsrichter, Smolensk. Privat Stern-

warte. Astrophysik, Astrophotographie. C.\* Grosglik, S., Warsaw.

Herzenstein, Salomon, Conserv. Zoolog. Mus. Imperial Acad. Sei., St.

Petersburg. Fishes, Arctic Marine Mollusca.\*

Heyer, Bernhard, Riga, rue des Ecaries 22. Bot., Fungi, Org. Chem.,
Mic.

Hinzenberg, Albert, Tiflis, Jardin Botan. Hort.
Hoyer, Dr. Henri, Prof. Histol., Emb., et Anat. Comp., à l'Univ. de Varsovie, 16 rue Longue, Varsovie. Emb.\*
Inostranzew, Alexandre, Prof. de Géol. à l'Université de St. Petersburg. Ivanitzkij, Nicolas, Kadnikov, Wologda. Bot: Phæn. and Crypt. Plants, Ethnog. C. Offers a small coll. of plants of No. Russia.

Ivanow, Alexis, Moscow. Strat. Geol.

Jashtchenko, Alexandre, Cur. Zool. Cabinet, Univ., St. Petersburg. Geog.

Dist., Orn.\*
Jeremejev, Paul, Membre-correspond. de l'Acad. des Sciences de St. Pe-

tersburg, Ingénieur des mines, Prof. de géol. à l'Univ. de St. Petersburg.

Kapoustine, Th., Prof. Physies, Univ., Tomsk, Siberia. Karpinsky, Alexandre, Membre de l'Acad. des Sciences, Ingénieur des Mines, Prof. de géol. à l'Institut des Mines, St. Petersburg.

Kastschenko, Nicolas, Prof. de Zool., Tomsk, Siberia. Emb., Mic., Gen. Zool., Ent., Orn., Ool., Ichth., Moll., Worms. C. Ex.\*
Kennel, Dr. J. v., Prof. d. Zool., Dorpat. Planaria, Peripatus, An-

nelids.

Kislakowski, Eugene, Univ., Min. Mus., Moscow. Min.

Kleiber, Dr. J., St. Petersburg. Ast.

Klinge, Johannes, Privat docent der Bot. and der Univ., Dir. Bot. Garten in Dorpat. Telmatol.

Klossovsky, Alexander, ordentlich Prof., Univ., Odessa. Phys. Geog.\* Knipowitsch, Nicolaus, Zootomical Lab., Univ., St. Petersburg. Emb., Comp. Anat., Zool. Geog.\*

Knüpffer, Paul, Dorpat. Acanthoceph.

Konanawitch, Prof. A., Obs., Odessa Ast.

Korshinsky, Dr. Sergius, First Bot, Bot. Gardens, Memb. Acad. of Sci., St. Petersburg. Phan. Plants., Geog. Dist. of Plants, Herbarium

of Russian Plants. Flora of Russia Empire.\*

Kowalevsky, Alex., Prof. Univ., St. Petersburg. Zool., Emb.

Kroustchoff, Dr. K. de., Mus. Min. de l'Acad. Imp. des Sciences. St. Pe-

tersburg.
Krulikowsky, Leonid, Malmisch, Guv. Wiatka. Lepid., Orthopt., Herpetol., Mollusca rossica.\*

Physiol Lab., Univ., Warsaw. Histol.\*

 Kuczynski, Antoni, Physiol. Lab., Univ., Warsaw. Histol.\*
 Kulagin, Nicolas, Privat-docent, Univ., Musée Zool., Moscow. Zool.,
 Gen. Biol., Geog. Dist., Morphol., Emb., Invert. Anat., Herpetol., Histol., Ent., Hymenopt., Worms. C. Ex. Kultschitzky, Dr. N. K., Prosector d. Histol. Univ., Charkow.

Kuphaldt, Georg, Dir. des Jardins publiques, Riga, Jardin Imperial. Bot: Phæn. Plants, Hort.

Kusnetzoff, Innocent, Great Prospect 8, Wasilii Ostroff, St. Petersburg. Gen. Biol., Geog. Dist., Ichth.\*

Kusnezow, Nikolai, Conserv. Bot. Gart., St. Petersburg. Bot: Phan. Plants, Ferns, Veg. Palwo.. Geog. Dist. des Plantes.

Lahusen, Joseph, + rof. de Paléont. à l'Inst. des Mines, Ingén. des mines, St. Petersburg,

Lindemann, Dr. Edouard von, Dr. Med. et Botan. honor, Elizabethgrad,

Gour, Cherson. Phon. Bot. C. 26,000 specimens.
Lindemann, Eduard, Wissenschaftlicher Secretair der Sternwarte, Pulkowa, near St. Petersburg. Ast, especially Photometric. Loewenton, Joseph Wladimirowitsch, Kaiserlicher Garten zu Nikita, Yalta (Krim.). Hort.

Lorinshoff, Freytag von, Neschin. Butterflies and Beetles of middle sec-

tion of Russia. C. Ex. Lwoff, B., Privat-docent d. Univ., u. Asst. Cab. Vergl. Anat., Moscow.

Amphioxus.

Marinza, Dr. N., Assist. in Chem., Inst. of Agronomy and Silviculture,
Norwaja Alexandria, Gouv. Lublin. Inorg. Chem., Meteo.

Mayzel, W., Warsaw. Vermes, Helix.

Medwiedeff, Jacques, Botanist, Tiflis, Caucase. Phæn. Bot., Ferns,

Mosses, Oriental Numis. C. Ex.

Melnikoff, N., Prof. Zool., Kasan. Menschutkin, Nicolas, Prof. Chem., Kaiserliche Univ., St. Petersburg. Mestchersky, Prof., St. Petersburg. Ast.

Metz, Georg de, Univ., Odessa. Phys. Meyer, Dr. Eduard, Warsaw. Annelids. Mitrofanow, P. J., Moscow. Hæmutozoa.

Monteverdé, Nicolas Augustin, Corpsforestier, St. Petersburg. Bot. Mouschketow, Jean W., Ingén. des Mines, Prof. de géol. à l'Institut des Mines, St. Petersburg. Min., Lithol., Mic., Geog. Dist. C. Ex.\* Musbaum, Dr. Joseph. rne Maryanska 10, Varsovie. Emb. Nicolsky, Alexandre, Univ., St. Petersburg. Geog. Dist., Vert. Niemann, Rudolf, Botanist n. Bot. Gardener, Bot. Garden, St. Petersburg.

Phæn. Plants, Hort.\*

Nikitin, Serge. Géol. en chef, Paléont., Comité Géol., St. Petersburg.

Invert. Palæo., Geol., Bibliog., Moll.

Nikolsky, Alechsander, Dr. Zool., Privat-docent, Assist. Zool. Mus.,

Univ., St. Petersburg. Vert. (Systematic).

Noleken, Baron, Gen. Major a. D., Pichtendahl. Brief address: Riga,

Thronfolger-Boulevard 6. Macro and Micro-Lepid. C. Ex.

Oettingen, Arthur von, Prof. Physics, Univ., Dorpat. Physics, Mus.

Acoustics, Elect., Photog., Meteo.

Ostroumoff, Alexis, Prof., Dr., Dir. de la Station Biol. Marine, Sebastopol, Crimea. Zool., Morphol., Emb., Anat., Ichthyol., Osteol., Histol., Crust., Worms, Moll., Radiates, Sponges, Protozoa. C. Ex.\*

Owsjannikow, Ph. W., ord.-Prof. Univ, St. Petersburg. Histol., Emb., Vert.

Paschkewitsch, Wassilij, Yalta Jardin Imperial à Nikita, Crimea. Phæn. Plants, Gen. Biol., Hort., Pomol.\*
Pavlow, Alexis, Prof. Geol. and Palæo., Geol., Mus., Univ., Moscow.

Invert. Pulæo., Geol.\*

Pavlow, Dr. D., Prof. Chem., Inst. of Agronomy and Silviculture, Norwaja Alexandria, Gouv. Lublin. Inorg. Chem.

Pavlow, Mary, Cheremetienski pereonlok, House Cheremetief, Moscow.

Vert. Palæo.\*

Pedaschenko, Dimitry, Cur. Zool. Cabinet, Univ., St. Petersburg. Emb., Crustacea.\*

Peremeschko, P., Kiew.

Pereyae Gwzewa, Dr. Sophie, Wassil Ostrow, Kadet. linie, 21, log. comte

Suzor, St. Petersburg. Zool.

Petersen, Wilhelm, Conservator am Mus., Reval (Estlaud). Lepid. of the World. C. Ex.

Petruschewsky, T., Prof. Physics, Univ., St. Petersburg.

Pohrt, Nicolai, Ingénieur, Chemiker, Versuchsstation am Polytechnikum,

zu Riga. Chem.

Polejacff, Nicolaus, Dr. Zool., Privat-docent, Univ., St. Petersburg. Emb., Comp. Anat., Spongia.
Rauber, A., Prof Anat., Dorpat. Vert. Anat., Emb. Regel, Robert, Jardin Botan. Impériale (Conserv. de l'herbier), St. Peters-

burg. Bot., Hort.\* Reinhard, W., Prof. Univ., Charkow. Emb., Comp. Anat.

Renz, F., Pulcowa. Ast. Repiachoff, Wassilij, Doceut du Zool., Odessa. Bryozoa, Turbell., Vert. Emb.

Retowski, Olto, Theodosia, Krim. C. Natural Curios from Krim, Moll., espec. Land Shells of the whole world. Ex. Rostowzew, Dr., Prof. Physics, Inst. of Agronomy and Silviculture, Nor-

waja Alexandria, Gouv. Lublin. Meteo.

Rybakow, Gregor, Preobrashenskaja Uliza, 5, St. Petersburg. Coleopt.\* Rywosch, David, Dr. Mcd., et Cand. Zool., Regitza. Zool., Gen. Biol. Salinsky, W., Dir. Zool. Mus., Odessa. Emb., Bryozoa, Ganoids, Moll. Schalfeew, Pierre, Conservator Zoolog. Mus., Imperial Acad. Sci., St.

Petersburg. Invert. (Insects).
Schewyrew, Ivan, l'Inst. Forest, St. Petersburg. Ent.\*
Schimkewitsch, Dr. Wladimir M., Prof. Zool. Univ., St. Petersburg.
Anat., Emb., Arachnida, Ast., Balanogl., Copep., Pyenog.\*
Schirowski, Wladimir, Univ., Geol. Mus., Moscow. Strat. Geol., Invert.

Sehmidt, Alex., Prof., Univ., Dorpat, Livonia. *Physiol., Gen. Biol.*\* Sehmidt. Christian, Chemiker, Versuchsstation am Polytechnikum zu Riga.

Schmidt, Frédéric, Membre de l'Acad. des Sciences de St. Petersburg. Schnabl, Johannn, M.D., N. 59 Krakauer Vorstadt, Warsaw, Poland. Dipt., Brachycera.\*

Schnoeder, Dr. Theodor, v., 33 Italjanskaja, St. Petersburg. Gynæcol.
Schulgin, M. A., Odessa. Reptiles,
Schwedoff, Dr. Theodor, Prof. Univ., Odessa. Phys.\*
Scrobischéwsky, Wladisław, Jakowljewitsch, Garteninspector, Kaiserlicher Garten zu Nikita, Yalta (Krm). Syst. Bot.

Shdanow, A., Prof. Ast., Univ., St. Petersburg.

Sintenis, F., Staatsrath, Dorpat. Lepid., Coleopt, Dipt. C.\*

Smirnow, Sergey M., Assist. Botan. Mus., Univ., Kazan. Bot., Hort., Gen. Piol., G. og. Dist.

Ssilantjew, Analol, Forst-lust., St. Petersburg. Forst-Zool., Forst-Ent., Cyripide.\*

Stehirovsky, Wladimir, Univ., Geol. Mus., Moscow. Invert. Palaco., Strat. Geol.\*

Stelling, Edward, Dir. des Magnetisch-Meteorologischen Observatoriums in Irkntsk.

Strelzoff, Dr., Docent für Embryol., Charkow.

Strnve, Dr. Hermann, Pulcowa. Ast. Tammann, Gustave, Prof. Dr. de la Chem., Dorpat, rue de Boucher, 5. Chem., Physics.\*

Tarnani. Iwan, Zool. Lab., Univ., St. Petersburg. Zool., Ichthyol., Arach.

Taroschewsky, Dr., Assist. in Zool., Univ., Charkow. Ent.

Teholovsky, Constantin, Prof. du Gymnase, Mohilew. Bot: Phæn. Piants, Ferns. C. Ex. Desires Orchids, Palms, Ferns, and seeds of forest plants of medicinal value. Teploukhoff, Théodor, Iljinskoe by Perm. Phæn. Bot., Salices, Orn., Forest Ent., Arch.

Terjuchin, Nicolas, Ville Podolsk, Moscow, Memb. Imp. Assoc. Acclimatizing of Animals and Plants in Russia. C. Ex. seeds, bulbs, etc.

Thoma, Richard, M D., Prof. Pathol. Anat. and Gen. Pathol., Marienhofselie Str. 14, Dorpat.

Thome, Joh., Fredriksstad. Orn.

Thoms, Prof. Dr. George, Riga. Agric. Chem., Physiol. Chem.\* Thoms, Prof. Dr. Gerrge, Right. Agric. Chem., Physiol. Chem.\*
Tikhomirov, Prof. A. A., Moseow. Emb., Hydr., Insects, Vert.\*
Tschernyschev, Thédoce, Ingénieur des Mines, St. Petersburg.
Tschisch, Dr. W. von, Univ., Dorpat. Psychol.
Ungen-Sternberg, Baron, Tiffis, Caucasus. Geol.
Urbanowicz, T., Warsaw. Emb., Cyclops, Copepoda.
Ussow, Dr. M., St. Petersburg. Emb., Invert., Cephalopods.
Vernadsky, Wladimir, Prof. of Min., Univ., Moscow. Min., Crystall.,

Lithol. Ex.\*

Wagner, Julius, Zootomical Lab., Univ., St. Petersburg. Emb., Comp. Anat.

Wagner, Nie. P. Prof., Dir. Zool. Cabinet, Univ., St. Petersburg. Vert. Zool.

Wagner, Woldemar, Prof an Lieée de S. A. J. le Grand Due Héritier, Moseow, Musée Polytéchnique. Zool., Gen. Biol., Geog. Dist., Morphol., Arach. C. Ex. Wahrlich, Woldemar, Dr. Phil. Nat., Inst. Botan. de l'Acad. deMédecine

Militaire, à St. Petersburg. Bot., Mycol.\*
Wasiliew, Dr. E., Prof. Zool., Inst. of Agronomy and Silviculture, Norwaja Alexandria, Gour, Inst. of Agronomy and Silviculture, Norwaja Alexandria, Gour, Inblin. Emb.
Werminski, F., Varsovie, Lab. Bot. de l'Univ. Bot.
Wierzejski, Dr. Anton O., Krakau. Sponges, Devel. Insects.

Wild, Dr. Heinrich, Wirkl. Staatstrath, Mitglied der Acad. der Wissenschaften, und Dir. des physikal Central-Observatoriums, St. Petersburg. Physics. especially Meteo. and Terrestrial Magnetism.
 Winkler, Constantin, Imp. Bot. Garden, St. Petersburg.\*

Winogradsky, Sergius, Dr., Botan., Inst. dc Médecine experimentale, St.

Woronin, Dr. M., St. Petersburg, Wasilia Ostroff, 9 Linie, Haus 2, Wohnung: 12.

Wotchall, E., Moscow, Lab. Bot. de l'Univ. Physiol. des Plants. Zebrikow, Wladimir, Gcol. Mus., Univ., Moscow.

### SERVIA.

Bierbach, O., Garten Inspector, Royal Bot. Garden, Belgrad. Ferns Dendrology, Hort. C.\*

### SPAIN.

Adan de Yarza y Torre, Ramon, Ingeniero de Minas, Lequeitio. Litologia, Micrografica.

Almera, Jaime, Presbitero, Canönigo, Catedrático de Géol., en el Semi-

nario conciliar, calle de Sagristans, 1, 3°, Barcelona \*
Arcimis, Augusto. Dir. del Inst. Central Meteo., Monte Esquinza, 7, 3°, Madrid. Meteo.

Balmaseda, Conde de, Lista 6, Madrid. Geol.
Bofill, Arturo, Cortes, 297 y 299, 2°, Barcelona. Con., Fossils of the
Miocene and Pliocene. C. Ex.\*
Caballero, Dr. Ernesto, Prof. Phys., Pontevedra. Diatoms, Mic.,
Photog.\*

Cajal, Prof. S. Ramon v. Prof. d'Histol. à la Fac. Med., Barcelona.

Calderon y Arana, Salvador, Doctor en Cicncias, Catedrático de Historia natural de la Facultad de Cicncias, de la Univ., Sevilla. Min., Petrog.

Capdebon Singala, José, Harina 28, Palma, Majorca (Balearic Isles). Fauna Balearic.

Chia, Manuel de, Médico-Cirujano, Licenciado en Ciencias, Calle de la

Diputación, 426, 19, Barcelona. Malacol., Prehist.
Comerma, Andrès A., Ingeniero de la Armada, Ferrol.
Cortázar, Daniel de, F. R. Acad. Sci., M. E., Velazquez 32, Madrid.
Geol., Min., Ast., Philol.
De Mazarredo, Carlos, Ingeniero de Montes, Claudio Coello, 22, pral.,
Madrid. Arach. Weigneyda. C.

Madrid. Arach., Myriopoda. C.

Dosset, José Antonio, Dr. en Pharmacie, Zaragoza. Diatoms, Photomicrography.

Egozene y Cia, Justo, Glorieta de Bilbao, 3, Madrid. Geol.

Escalante, José, Doctor en Cicncias y Catedrático de Historia Natural en

cl Instituto de Santander, Mendez-Numez, 7.
Fernandez de Castro, Manuel, Pres. de la Comision del Mapa Geol.,
Jorge-Juan, 23. 1º, Madrid. Palæo., Geol. C. Ex.\*
Fungairino, Ednardo, Orellana, 5, 3º, Madrid. Diatoms.

Gomez Carrasco, Enrique, Postigo de San Martin, 9, 2º, Madrin. Ent. general.

Gonzalo y Farin, Joaquin, Recolctos 4, Madrid. Geol.

Iñarra y Echeverria, Fermin, Catedrático Supernumerario, por oposicion, de Ciencias fisico-quimicas y naturales en el Instituto del Cardenal Cisueros, C. Gravina, 14, 2º, Madrid.
Linares, Prof. Augusto G. de, Santander. Cetacea.
Lopez Cepero, Adolfo, Chiclana (Cádiz). Ent., Coleopteros de Europa.
Mallada, Lucas, Velasquez 37, Madrid. Palæo.
Medina y Ramos, Dr. Manuel, Luzara 2, Sevilla. Gen. Ent., Hymenopt.
Mena Refael Instituto Malage.

Mena, Rafael, Instituto Malaga. Orn., Ool.

Merino, Prof. M., Obs., Madrid. Ast.

Monjo y Monjo, Pedro, Con. del Museo municipal, Mahon (Menorca).

Con.

Moragues, Dr. Fernando, Pbro., Calle de General Barcelo, S. Palma de Mallorca (Baleares). Cambia los insectos siguientes: Hymenopt., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., y (Conchas) Mollusks de Mallorca, contra Moluscos de Europa y Exóticos principalmente terrestres.

Müller, Friedrich D., Pasco de San Juan, 165, Barcelona. Coleopt., Moll.

C. Ex. Olavarria, Marcial, Huertas 82, Madrid. Min.

Orueta, Domingo de, Ingenieur de Mines, Gijon. Infusoria, Photomicography.\*

Palacios, Pedro, Isabel la Catolica, 25, Madrid. Geol.

Pantel, José, S. J., Monasterio de Uclés, Tarancon (Cuenca). Ortópteros.\*

Puig, Gabriel, Pavia 2, Madrid. Geol.

Quiroga y Rodriguez, Francisco, Doctor en Ciencias y en Farmacia, Catedrático por oposicion de Cristalografia en el Musco de Ciencias

naturales, calle de Orellana, 10, 3°, Madrid. Min., Geot., Crystal.\*
Real Academia de Ciencias y Artes, Rambla de Estudios, 9, Barcelona.\*
Reyes y Prosper, Eduardo, Dr. en Ciencias Naturales, San Bernardo 56,
2°, derecha, Madrid. Anatomia Comparada, Microg., Cristal.,
Dibujo científico.

Ribera Emilio, Doctor en Ciencias naturales, Catedrático de Historia naturel en el Instituto y antor de varios obras para la ensenanza en Espana y America. Plaza de la Aduana, Valencia.

Rodriguez, Ant. Suarez., care of C. Bailly-Baillière, Madrid. Trichina in Spain.

Rodriguez y Femenías, Juan J., C. de la Libertad, 46, Mahon (Menorca).

Algæ.\* Ruiz, Casaviella, Juan, Licenciado en Farmacia, Caparroso (Navarra).

Botanica espec. plantas Navarras, Tax., Orn.

Botanica espec. piantas Navarias, ...,
Sanchez, Ratael, Génova 17, Madrid. Geol.
Seoane, Ylmo. Sr. Dr. Victor Lopez, Avocat, De l'Acad. des Sciences,
Chef Sup. de l'Admin. Comm. Royal pour l'Agric., Coruña. Bot.,
Chef Sup. de l'Admin. Chef. Pholog., Ent., Moll., Zool. C. Ex.\*

Société. Espagnole de Hist. Nat., Ignacio Bolivar, Secretaire, rue Moreto

7, Madrid.

Tremols y Bórrell, Federico, Catedrático de Química inorganica aplicada de la Facultad de Farmacia en la Univ., Calle de la Princesa 1-2, Barcelona. Bot.

Truan, Alfred, Gijon, Dir. des Verreries de Gijon. Diatoms, Photomicography.

Vergara, Mariano, ra, Mariano, Avocat, ex-Deputé, ex-Prefect. ex-Prof., Univ., Membre des Academies, de l'Histoire, des Beaux-Arts et de Jurisprudence, Madrid, Plaza de Santa Barbara. Gen. Sci., Agric. Bibliog. Desires corresp. with Amer. agriculturists and horticulturists.\*

## SWEDEN.

Abenius, Dr. P. W., Fellow R. University, Upsala. Chem.

Adlerz, Dr. Ernst, Lecturer, Public College, Orebro. Phæn. Plants, Bryol. C.

Adlerz, Dr. Gottfrid, Lecturer Publ. Coll., Sundsvall. Entom., Anat. C. Agardh, Dr. J. G., late Professor R. University, Lund. Algol. C. Ahlberg, C. A., Asst. R. Pharmaceut. Inst., Stockholm. Pharm. Chem. Ahlfoegren, Dr. Fredr., Asst. Botan. Dept. State Museum Nat. Hist., R.

Acad. Sci, Stockholm. Bot.

Ahlner, K., Ph D., Lehrer, Wexiö. Algology.\*
Ahlstrand, J. A., late Librarian R. Acad. Sci., Stockholm. Nat. Hist. Bibliogr.

Alén, J. E., Ph.D., Göteborg. Chem.\*

Almén, Prof. Dr. August, Dir. General R. Medical Board, Stockholm.

Physiol. Chem.

Almquist, Ernst, Prof. der Hygiene, Stockholm. Lichens, Bacteriol.\* Almqvist, P. W., Prof. R. Techn. High School, Stockholm. Hydrogr. Almovist, Dr. Sigfrid, Rector Publ. Coll. "Högre Realläroverket," Stock-

holm. Bot. esp. Lichens. C. Almström, R., Manager Rörstrand's Porcelain Manufact. near Stockholm.

Ceramics.

Alrntz, A. O., Chief Engin. Water-Supply, Stockholm. Hydr.
Andersson, Dr. C. A., Physician, Trollhättan. Bot. C.
Andersson, Gunnar, Ph.D., Assist. Acad. Sci., Stockholm. Bot., Palæophyt., Peat-Mosses.\*

Andersson, Dr. Fredr. Lecturer Publ. Coll., Halmstad. Math., Phys. Andersson, Gabriel, B.A., Preparator Zool. Mus. R. Univ. Upsala. Zool. Andersson, J. Gunnar, Geol. Inst. R. Univ., Upsala. Palæont. C.

Andrée, C. A., Chief Engin. R. Patent Office, Steekholm. Phys.

Angström, Dr. Knut, Laborator des Phys. Instituts der K. Univ., Upsala. Phys.\*

Antropologi och Geografi, Svenska Sällskapet for (Swedish Anthropolog. and Geograph. Society), Stockholm-founded in 1873-Pres., Dr. O. Montelius, Secr., Dr. E. W. Dahlgren.

Appelberg, O., Éngineer, Upsala. Hydrogr. Areschong, Dr. F. W. C., Prof. R. Univ., Lund. Anat., Physiol. Plants,

Rubus. C.
Arnell, Dr. H. W., Leeturer Publ. College, Jönköping. Bryol. C.
Arnell, Dr. Knut. Geffe. Pract. Chem.
Arrhenius, Svante A., Ph.D., Teacher of Physics, Hogskola (Univ.)
Stockholm.\*

Ask, Dr. C. J., Prof. R. Univ., Lund. Surgery.
Atterberg, Dr. Alb., Dir. Chem. Station and Sced-controlling Office, Kalmar. Chem.

Aulin, Dr. Fredr., Teacher Publ. Coll. "Södermalm's," Stockholm. Bot.

Anrivillius, Carl W. S., Ph.D., Docent a. d. Univ., Upsala. Crustacea.\* Aurivillius, Prof. Dr. Christopher, Dir. Entom. Dept. State Mus. Nat. Hist. R. Acad. Sci., Stockholm. Ent.

Bäckström. Helge, Ph.D., Docent, Univ., Kungsgatan 30, Stockholm.

Lithol., Min., Geol.\*

Baer, C. T. E., Chief Forester, Alvastra (Prov. Ostergötland). Forestry. Behm, J. E. Florentin, Surveyor, Ostersund. Bot., Ent., Eth. C. Benckert, H. T., Alderman Town House Court, Stockholm. Bot. C.

Bendixon, J., Docent, Univ., Stockholm. Math.

Bendixon, Dr. T. O., Fellow High School, Stockholm. Math.

Bendz, Dr. Hans, Assoc. Prof. R. Univ., Lund. Pathol. Ana'.

Bendz, Olof Pehrsson, Teacher R. High School Agricult., Alnarp, Akarp (Prov. Skauc). Veter.

Bengtsson, P. A., Rector Techn. School, Borås. Mech. Techn. Bengtsson, Simon, B.A. Asst Zool, Mus R. Univ., Lund. Ent. Berg, Fritz, Dir. Scanian Cement Co., Malmö. Cement Berg, Dr. John, Prof. R. Carol, Med. Surg. Inst., Stockholm. S

Sura. Berg, B. A., Lecturer Teehn. School, Stockholm. Math.

Bergendal, Dr. David, Fellow R. Univ. Lund. Zool.

Berger, Dr. Alex. Fredr., Fellow R. Univ. Upsala. Math.
Berggren, Johan, B.A. Teacher Publ. Coll. "Nya Elementarskolan,"
Stockholm. Math., Bot. C.

Berggren, Dr. Sven, Assoc. Prof. R. Univ. Lund. Bot. esp. Bryol. Bergin, P. G., Tcacher Publ. Coll., Venersborg. Bot. C. Bergman, Dr. Gustaf, Fellow R. Univ., Upsala. Hygiene. Bergstrand, Prof. Dr. C. E., Djursholm, near Stockholm. Agric. Chem.,

Seed-contr., Agron.
Bergstrand, Dr. J. O, Dir. Chem. Station and Seed-controlling Office, Westeras. Agric. (hem.

Berlin, Dr. J. August, Chief Provincial Physician, Stockholm. Hygiene,

Arct. Phan. Plants. C.

Berlin, Dr. Mac, Lecturer Publ. Coll., Yönköping. Math. Billmansson, Dr. S. R., Rector Publ. Coll, Nora. Bot., Meteor.

Biologiska Föreningen (Biological Society), Stockholm. Secr. Dr. W. Leche.

Bjerknes, Vilhelm, Univ.. Stockholm. Physics, Elect.\*
Bjerknes, Vilhelm, Univ.. Stockholm. Physics, Elect.\*
Bjerknes, Dr. W. F. K., Teacher High School, Stockholm. Mech.
Björken, Dr. John, Assoc. Prof. R. Univ. Upsala. Ophthalmol.
Björling, Dr. Carl F. E., Prof. R. Univ. Lund. Math., Bryol. C.
Björn, Axel, Dir. R. Gardens, Ulriksdal, near Stockholm. Hort. Bladin, Dr. J. A., Fellow R. Univ., Upsala. Chem. Bliv, Dr. Magnus, Prof. R. Univ., Lund. Physiol.

Blomberg, Dr. Albert, State Geologist, Geol. Survey Sweden, Stockholm.

Blomberg, Olof Gotthard, Pastor, Ekcnsholm. Lichens. C. Ex.\* Blomstrand, Dr. & bristian Willi, Prof. R. Univ., Lund. Chem. Blüm, A., Dir. Sced-controlling Office, Linköping. Bot.

Boldin, Dr. Karl, Asst. R. Astronom. Observ., Stockholm. Astr. Borg, Hjalmar, Fil. Kandidat, Zool. Inst., Upsala. Zool., Ent., Neuropt. C. Ex.\*

Borge, O. Fr., Dr., Upsala. Bot: Algæ.\* Borgström, Ernst, B. A., Asst. Zoot. Labor. R. Univ., Upsala. Comp. Anat., Helminth.

Borgström, Dr. Sven, late Commissioner of Land Revenue, Stockholm.

Bot. C.

Botaniska Föreningen (Botanist's Association), Lund. Pres., Dr. S. Berggren. Secr. H. Simmons.

Botaniska Sällskapet (Botanical Society), Stockholm. Pres. Dr. V. B. Wittrock, Secr. (pro. temp.) Dr. F. Ahltvegren.

Bothén, C. O., Commercial Clerk. Gothenburg. Ornith.

Bowallins, 1r. Carl E. A., Fellow R. Univ., Upsala. Crust., Ethnol. Broden, Dr. Forsten, Fellow R. Univ. Lund. Math.

Broman, J. F., Dir. Seed-controlling Office, Ope, Brunflo Prov. (Jemt-

land). Agron.
Brown, Th., Telegraph-Official, Dir. Scand. Section Botan., Ex. Assoc.

"Linnwa," Gothenburg. C.

Brusewitz, G., late Dir. Hist. Dept. Museum, Gothenburg. Arch. Bruzelius, Dr. N. G., late Rector Publ. Coll. Ystad, pres. residence Lund. Arch., Eth. C.

Bruzelins, Dr. R. M., Prof. R. Carol. Med. Surg. Inst., Stockholm. Med. Bååth, Dr. A. U , Fellow High School, Gothenburg. Ethnol.

Bäcklin, Dr. Gottfrid, Lecturer Math., Phys. Publ. Coll., Upsala. Bäcklund, Dr. Alb. Vict., Assoc. Prof. Mech. R. Univ. Lund. Math.,

Mech. Bäckström, Dr. Helge, Fellow High School, Stockholm. Carleson, J. A., State Mining Engin., Luleå. *Mining*. Petrogr., Min-

Carlgren, Dr. O., Asst. Invert. Dept. State Mus. Nat. Hist., R. Acad. Sci.,

Stockholm. Actinia. Carlsson, A. F., Clerk Scanian Coment Co., Lomma, near Malmö. Phy-

Carlsson, Miss Albertina, Teacher ("Elementarläroverket för flickor å

Söder'), Stockholm. Zoot.
Carlsson, Dr. C. Ph., State Inspector of Mines, Falun. Min.
Carlsson, Dr. G. A., Teacher Publ. Coll. "Ostermalm's," Stockholm. Geol.

Cassel, Dr. Gustav, l'Univ., Stockholm. Math.\*

Cederblom, J. E., Prof. R. Teclin. High School, Stockholm. Mech.

Cederström, Dr. A., Baron, High School, Stockholm. Geol. Charlier, Dr. C. W. L., Observ. Astron. Observ. R. Univ., Upsala. Astr.

Christensen, R., Gardener R. Univ. Lund. Hort.
Clason, Dr. Edv. C. H., Prof. R. Univ. Upsala. Anat.
Cleve, Dr. P. T., Prof. Chem. R. Univ. Upsala. Chem., Diatoms. C. Ex.
Cnattingins, A. T., Forester, Marma Prov. (Uppland). Forestry.
Collin, Dr. C. R., Leet. Math. Publ. Coll., Umeå.

Collinder, Erik, B.A., Teacher Publ. Coll., Sundsvall. Bot., esp., Bruol. C. Crælius, P. A., Mining Engin., Engelsberg (prov. Vestmanland). Diamond

drill exam. of ore deposits. Cronander, Dr. A. W., Lect. Techn. School, Norrköping. Agric. Chem. Cronquist, Prof. A. W., Chem. R. Navy, Stockholm. Explosives, Peat,

Cronvall, Axel Jul. A., Ph.D., Semin. Lehrer, Linköping. Meteor.\* Curman, Prof. Dr. C., Fellow R. Carol. Mcd. Surg. Inst., Stockholm. Balneolo.

Curman, N., Chief Engineer R. Board Telegraphs, Stockholm. Electr. Dahlander, Dr. G. R., Prof. R. Techn. High School, Stockholm. Phys. Dahlgren, Dr. E. W., Librarian R. Acad. Sci., Stockholm. Nat. Hist. Bibliog.

Dahlstedt, H., Asst. Botan. Dept. State Mus. Nat. Hist., R. Acad. Sci.,

Stockholm. Hierac.
Danielsson, C. F., State Mining Engin., Kopparberg (Prov. Vestmanland). Mining.
de Brun, Dr. Frans, Skärgårdsgatan 2, Stockholm. Math.

de Geer, Gerard, Ph. Dr., State Geologist, Geolog. Bryan, Stockholm. Glac. Geol.\*

Glac. Geol.\*

de Laval, Dr. Gustaf, Engineer, Mech. Inventor, Stockholm.

Delin, Dr. Carl, Fellow R. Univ. Lund. Math.

Deliwik, C. A., Dir. Assoc. Iron Masters, Stockholm. Metallurgy.

Dillner, Dr. Göran, Prof. Math. R. Univ. Upsala. Math.

Djurklon, Dr. N. G., Baron, Orebro. Ethnogr.

Dufva, E. A., State Inspector of Mines, Stockholm. Mining.

Dunér, Dr. Nils, Prof. R. Univ. Upsala, Dir. Astron. Observ. Astr.

Dusén. Dr. K. E. Lort. Publ. Cell. Kelmar. Ret. ex. Sphamage.

Dusén, Dr. K. F., Lect. Publ. Coll., Kalmar. Bot. esp. Sphagnacew. C. Ex. Scand. Sphagn. for others.

Dusén, P., Engineer, Motala. Bot., Geol. Edgren, Dr. J. G., Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm-Med.

Edholm, Dr. E. M., Chief Army Surgeon, Stockholm. Mil. Hyg.

Eggertz, Dr. C. G., Asst. Chem. Dept. Experiment Grounds R. Acad.

Agric., Albano, near Stockholm. Agric. Chem. Eggertz, Dr. Carl M. U., Lect. Publ. Coll., Karlskrona. Ent. C.

Eichstädt, Dr. F., Teacher Chalmer's Techn. Inst., Gothenburg. Petrog. Ekbohrn, Ossian, Custom-house Officer, Sandhamn (Prov. Stockholm).

Ornith. C.
Ekboun, Alfred, Börjegatan 3, Upsala. Org. Chem.
Ekholm, Dr. N., R. Meteor. Inst., Stockholm. Meteor.
Ekchorn, Dr. J. G., Fellow R. Univ., Upsala. Surg.
Eklund, J. E., Dir. School of Mines, Falun.

Ekman, G., Engineer, Gothenburg. Hydrogr. Ekman, T. Thorsten, Fil Kand, O. Agalan 41, Upsala. Zool., Worms.\*

Ekstrand, Dr. C. R., Lect. Chalmer's Techn. Inst., Gothenburg. Mech. Ekstrand, Dr. A. G., Engin. R. Brandy Control Office, Stockholm. Org. and Techn. Chem.

Elander, F., B.A., Asst. Chem. Labor. R. Univ., Lund. Chem.

Elfstrand, Dr. Marten, Upsala. Hierac., Salic. C. Elgenstierna, C. J. R., Postmaster, Nora. Bot. C.

Elowson, Dr. Gullbrand, Lect. Math., Phys., Karlstad. Enander, S. Johan, Pfarrer, Lillherrdal (Herjedalen). Bot: Phæn. and Crypt. Plants, Ferns, Mosses, Lichens. C. Ex.\*

Enell, H. G. O., Apothecary, Karlbergsvägen 10, Stockholm. Pharm. Chem.

Eneström, G., Asst. R. Library, Stockholm. Math., Bibliogn.

Engström, Dr. Arvid, Teacher Publ. Coll., Kalmar. Bot. C. Engström, Dr. Folke Aug., Observ. Astron, Obs. R. Univ., Lund. Astr. Engström, Dr. Nils, Tcacher R. High School Agricult., Alnarp, Akarp (Prov. Skåne). Agr. Chem.

Entomologiska Föreningen (Entomologists' Association), Stockholm. Pres. Dr. O. T. Sandahl, Secr. Dr. Chr. Aurivillins. Erdmann, Edvard, State Geol, Gcol. Surv. of Sweden, Stockholm. Geol.,

Coal Mines and Quaternary deposits.\*

Ericson, Isaac B., Mölndal. Coleopt. C. Swedish Beetles. Ex.\* Ericson, T. B., Foreman Manufact. Mölndal, near Gothenburg. Coleopt.

Ericsson, Carl J. A., Lcct. R. Veter. Inst., Stockholm. Anat.

Ericsson, Dr. Gust., Fellow R. Univ., Upsala. Astron.

Ericsson, Tore, Acad. of Fine Arts, Bellmamsgatan 12, Stockholm. Photog.

Erikson, Dr. Johan, Botan. Inst. R. Univ. Lund. Anat. Plants.

Erikson, Dr. Johan, Botan. Inst. R. Univ. Lunc. Anat. Plants. Erikson, Prof. Jacob, Ph.D., Dir. Agric. Bot. Stat., Albano, near Stockholm. Editor of "Fung. paras. scand. exsice." and of "Collectio ccrealis." Bot., Physiol., Fungi, Corn varieties. Ex.\* Essén, A. W., Dir. Seed-controlling Office, Borås. Bot. C. Estelle, Axel, Engin., Brunkebergstorg 14, Stockholm. Pract. Electr. Eurenius, Dr. A. G. J., Lect. Math., Phys. Techn. School, Norrköping. Eurenius, Dr. M. C. J., late Lect., Dir. Zool. Mus., Malmö. Zool., Arch. C. Ex.

Fahlerantz, A. E., Mining Engin., Norberg (Prov. Vestmanland). Geol. Falinchjelm, Otto, Engin., Stockholm. Incand. Illum., Cement. Falk, Dr. A. W., Metcorol. Inst. R. Univ. Upsala. Meteor.

Falk, Dr. Maths., Prof. Math. R. Univ. Upsala. Math. Farmaceutiska Föreningen (Pharmaccutical Society), Wallingatan 20, Stockholm. Pres. H. G. O. Enell, Scer. F. A. E. Waller.

Feilitzen, C. H. J. von, Dir. Chem. Station and Fen. Culture Association, Jönköping.

Fernqvist, E. B., Rect. Techn. School, Orebro. Chem. Techn.

Fineman, Dr. C. Gottfrid, Fellow R. Univ., Upsala, Teacher R. Naval School, Stockholm. Meteor.

Flink, Gust., Teacher. Min, Crist., Dealer in Scandinavian Min., Karl-

bergsvägen 12, 3tr., Stockholm.\*
Floderns, Björn, Cand. Med., Asst. R. Univ., Upsala. Surg., Salic. C. Floderus, Manfred M., Ph.D., Rektor, Upsala. But. C. Exchanges Seandinavian Salices.\*

Fock, Baron A. H. E., late Prof. R. Techn. High School, Stockholm.

Fogelmarck, Dr. Fr. Emil, Prof. Math. R. Teehn. High School, Stock-

holm. Math. Forsberg, G. E., Asst. Chem. Labor., High School, Stockholm. Analyt. Chem.

 Forsberg, Svante, Asst. R. High School Agric., Alnarp, Åkarp (Prov. Skåne). Agron.
 Forsling, Dr. Sven, Chem. Inst., Upsala. Phys. Chem.
 Forssell, Abraham. Teacher R. High School Forestry, Stockholm. Agron. Forssell, Abraham, Teacher R. High School Forestry, Stockholm. Agran.
Forssell, Gideon, B.A., Teacher, High School, Stockholm. Org. Chem.
Forssell, Dr. Hans, Pres. R. Land-revenue Dept., Stockholm. Bot. C.
Forssell, Dr. K. B. J., Karlstad. Lichens. Ex. C. Lichens of Sweden and Norway for those of other countries.\*
Fredholm, Dr. K. A., Rect. Publ. Coll., Luleå. Geol.
Fredriksson, Theodor, Fil. Kand., Upsala. Bot: Alga, Desmids. C. Ex.\*
Fries, Dr. Robert, Physician, Gethenburg. Mycol.
Fries, Prof. Dr. Thore, Dir. Bot. Garden and Mus. R. Univ., Upsala. Arct. Phan., Crunt. Plants. C. Ex.

Arct. Phon, Crypt. Plants. C. Ex.
Friesen, Dr. Otto von, Teacher Publ. Coll. "Nya Elementarskolan,"
Stockholm. Bot. C.

Friesen, Dr. Sixten von, Lect. Math, Phys. Publ. Coll. "Högre Real-

läroverket," Stockholm.

Fröman, G. A., Upsala. Bot. C. Ex. Cyperacee.\* Fürst, Carl M., M.D., Prof. Anat. and Histol. Lund.\*

Fysiografisk \* Sällskapet, Kongl. (R. Physiograph. Society) Lund-founded in 1773—Pres. Dr. N. Olsson-Gadde, Secr. Dr. Axel Möller.

Fysiska Sällskapet (Physicists' Association), Up-ala. Pres. Dr. K Ang-

ström, Seer. Dr. K. L. Hagström.
Gadde, Dr. F. Ohlsson-, Teacher Publ. Coll., Lund. Malacol.
Gadde, Prof. Dr. Nils Olsson, Dir. School for Midwives, Lund. Nat.

Hist. Med.
Gagner. W., Major R. Board Road and Water-Works, Halmstad. Hydrog.

Cellerstedt, C., Geol. Survey of Sweden, Stockholm. Glac. Geol

Geologiska Föreningen (Geologists' Assoc.), Stockholm, founded in 1871. Pres., G. Nordenström, Secr., Dr E. Svedmark.

Goës, Dr. Axel, Provincial Physician, Kisa (Prov. Ostergötland). Biol., Rhizopoda, Hugiene.

Goldkuhl, Dr. A. E., Chief Prov. Physician, Vexio. Hugiene.

Granqvist, Dr. G., Ast. Phys. Inst. R. Univ., Lund. Phys. Gravilius, Dr. A. Y., High School, Stockholm. Bot. Grill, C., Lieutenant. Drottninggatan 2, Stockholm. Ent. C. Groth, E. F., Chief Forester, Ostersund. Forestry. Grönberg, G., Asst. High School, Stockholm. Zool. Gullander. Per, Teacher Chalmer's Techn. Inst., Gothenburg. Mech. Gullstrand, Dr. Allvar, Fellow R. Carol. Med. Surg. Inst., Stockholm. Physiol., Ophthalm

Gumælius, Otto, Mining Engin., Rocklunda, Valla (Prov. Södermanland). Mining, Glac. Geol.

Gyldén, Prof. Dr. Hugo, Astronomer R. Acad. Sc., Dir. Astron. Observ., Stockholm. Astr.
Gyllenereutz, Dr. Richard, Provincial Physician, Tjellmo (Prov. Öster-

götland). Bot. C. Gyllenskiöld, Dr. C. Carlheim-, R. Observatory, Stockholm. Phys., Magnet., Meteor.

Göthe, C. G., Chief Forester, Vexiö. Forestry.

Hafström, O. Hj., Court-clerk, Stockholm. Bot. C.

Hafström, O. Hj., Court-clerk, Stockholm. Bot. C.

Hagström, K. E., Asst. R. High School Agric., Alnarp, Akarp (Prov. Skäne). Forestry.

Hagström, K. L., Ph.D., Docent, Univ. of Upsala. Physics, Elect., Meteo.\*

Hahr, A. W. T., Chief Forester, Westeräs. Forestry.

Haij, Dr. Julius, Leet. Publ. Coll., Vexiö. Zool.

Hallenberg, G. F., B.A., Teacher Publ. Coll., Visby. Agric. Chem. Hallgren, L. J., Forester, Rånnum (Prov. Vestergötland). Forestry.

Hemberg, Axel, B.A., High School, Stockholm. Min., Cryst.
Hamberg, Dr. Hugo Em., Asst. R. Meteor. Inst., Stockholm. Met.
Hamberg, Dr. N. P., late R. Forensic Chemist, Stockholm. Chem., Pharm.
Hammar, Dr. J. A. H., Fellow R. Univ., Upsala. Histol.
Hammarskijold, Dr. C. G., Member Supreme Court Justice, Stockholm.

Ref. C.

Bot. C.

Hammarsten, Dr. Olof., Prof. R. Univ., Upsala. Physiol. Chem. Hansson, C. A., Preparator Municip. Mus., Strömstad. Zool.

Hasselberg, Prof. Dr. Bernhard, Physicist R. Acad. Sei., Stockholm. Phys.

Hazelius, Dr. Arthur, Dir. Ethnograph. Museum of the North, Stockholm.

Hector, Dr. David, Sysslomansgatan 19, Upsala. Org. Chem.

Hedberg, Joh. Aug., B.A., Teacher Publ. Coll., Eksjö. Math. Hedberg, Joh. Rev., Prof. R. Univ., Upsala. Pathol. Anat. Hedin, Dr. Sven, Stockholm (at present traveling in Asia). Ethnogr. Centr. Asia, Nat. Hist.

Hedin, Dr. Sven Gust., Fellow R. Univ., Lund. Chem.

Hedlund, Dr. T., Docent, Upsala. Lichens.\*

Hedström, A. G., Chief Forester, Gothenburg. Forestry. Hedström, Herman, High School, Stockholm. Bot., Geol.

Hellbom, O., Ph. Cand., Orebro. Bot: Lichens.\*
Hellbom, P. J., Ph.D., Lehrer, Orebro. Bot., Lichens.\*
Hellström, A. M., Chief Forester, Umeâ. Forestry.
Hellström, Dr. C. G., Lect. Publ. Coll. "Nya Elementarskolan," Stockholm. Math.

Hellström, Dr. Paul, Asst. R. High School Agricult., Ultuna, near Upsala. Ora. Chem.

Hemmendorff, Ernst, Upsala, Södermanlands-Nerikes Nation. Bot. C. Hennig, Anders. Fil. Dr., Docent Geol., Univ., Lund. Invert. Palæo., Bryozoa.\*

Henning, Dr. Ernst, Asst. Phys. Dept. Exper. Grounds, R. Acad. Agric.,

Albano, near Stockholm. Agric. Bot., Mycol. Henriques, P. H., Lect. Geom., R. Techn. High School, Stockholm.

Hensehen, Dr. Salom. Eberh., Prof. R. Univ., Upsala. Pathol. Anat. Hildebrand, Dr. C. H., Assoc. Prof. R. Univ., Lund. Med.

Hildebrand, Dr. Hans, R. Antiquary, Dir. R. Archæol. Museum, Stockholm. Arch.

Hildebrandsson, Prof. Dr. Hugo H., Dir. Mcteor. Observ. R. Univ. Upsala. Meteor., Phys. Geog. Hjeltström, Dr. S. A., Leet. Publ. Coll., Sundsvall. Meteor.

Hjertström, Dr. E. J. G., Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm. Psychiatrics. Hoffstedt, A. W., Lect. R. Techn. High School, Stockholm. Mech.

Hofsten, Dr. S. A. G. von, Fellow R. Carol. Med. Surg. Inst., Stockholm.

Holm, Dr. Gerhard, State Palæontologist, Geol. Survey Sweden, Stockholm. Cambr. Sil. Pal. C. Ex. Holm, J. A., Curate, Timrâ, Wifstavarf (Prov. Vesternorrland). Bot.

C. Ex.
Holm, V. F., B.A., Teacher Publ. Coll., Ornsköldsvik. Salic.
Holmertz, C. G. G., Dir. R. High School Forestry, Stockholm. Ornith. Holmgren, Emil, Cand. Med., Kyrkogärdsgatan 9, Upsala. Anat., Entom.

Holmgren, Dr. Frithiof, Prof. R. Univ., Upsala. Physiol. Holmgren, Dr. K. A., Prof. R. Univ., Lund. *Physics*. Holmquist, K. O., B.A., Zool. Mus. R. Univ., Lund. *Zool.* 

Holmqvist, P. J., B.A., Assist. Min. Inst. High School, Stockholm. Min. Holmström, Dr. L. P., Rect. Peasant High School, Hvilan, Akarp (Prov. Skåne). Geol., Agron.

Holst, Dr. N. O., State Geologist, Geol. Survey Sweden, Stockholm. Glac. Geol.

Hoppe, E. F. F., Captain, State Mining Engineer, Stockholm. Pract. Geol.

Hulander, Otto, Asst. Chem. Station, Kalmar. Agron. Hulth, J. M., B.A., Asst. Library R. Univ., Upsala. Lichen. C. Ex. Bibliogn.

Hulting, Johan, Ph.D., Lehrer, Norrköping. Bot., Lichens. C. Ex.\*
Hvass, Dr. Thorbjörn, Fellow R. Carol. Med. Surg. Inst., Stockholm.
Neurology.

Hylander, C., Asst. Seed-controlling Assoc. Central Sweden, Orebro. Agron.

Häkansson, J. F., B.A., Teacher Publ. Coll., Piteå: Bot. C.

Hägerström, K. P., B.A., Teacher Publ. Coll., Westerås. Bot., Geol. C. Högbom, Dr. A. G., Prof. (pro. temp.) High School, Stockholm, Dir.

Min. Inst. Géol., Petr. Igelström, L. J., late Mining Official, Gräs, Sunnemo (Prov. Vermland).

Igelström, L. J., late Minng Omeiai, Gras, Sunnemo (Frov. Verimand).
Min. C. Ex. rare Swed. Min.
Ihre, Dr. O. A., Teacher Publ. Coll., Örebro. Chem., Phys.
Insulander, T., Dir. Agricult. School, Bjerkasäby, Linköping. Agron.
Jochnich, Dr. C. Walter, Leet. High School R. Artillery and Engin., Stockholm. Math., Mech.
Johansson, Dr. Adolf Magnus, Teacher Priv. Coll. "Stockholms Realgymnasium, Brunnsgatan 21. Math.
Johansson, Georg, Teacher Publ. Coll., Malmö. Bot. C. Ex.
Johansson. Dr. Johan E.. Labor. Physiol. R. Carol. Med. Surg. Inst.,

Johansson, Dr. Johan E., Labor. Physiol. R. Carol. Med. Surg. Inst., Stockholm. Physiol. Johansson, J. L., B.A., Storgatan 16, Upsala. Mar. Algol. C.

Johansson, K., B.A., Teacher Publ. Coll., Visby. Phan. Plants, esp. Hierac. C.
 Johansson, K., Mining Engineer, Assoc. Iron Masters, Stockholm. Min.

Johansson, Dr. Nils Abr., Rect. Publ. Coll. "Reallaroverket," Gothenburg. Math., Bot. C.

John, Dr. Severin, Assoc. Prof. Chem. R. Carol. Med. Surg. Inst., Stock-

holm. Med. Chem.
Josephson, Dr. C. D., Fellow R. Carol. Med. Surg. Inst., Stockholm. Obstet.

Juhlin, Dr. Julius, Lect. Publ. Coll., Skara. Meteor., Phys.
 Juhlin-Daunfelt, Dr. Herman, Dir. R. High School Agric., Ultuna, near Upsala. Agron., Diatoms. C.

Jungner, J. G., Mining Engineer, Persberg (Prov. Vermland). Jungner, Dr. Richard, High School, Stockholm. Bot. C. Jäderholm, Axel Elof, B.A., Forsgatan I, Upsala. Bot. esp. Bryol. C.

Jäderin, Edv., B.A., Lect. R. Techn. High School, Stockholm. Geod. Jägerskiöld, L. A., Fil. Dokt., Zool. Inst., Upsala. Zool., Emb., Anat., Worms.\*

Jönsson, Dr. Bengt, Fellow R. Univ. Lund, Dir. Seed-contr. Office. Bot. C.

Jönsson, Jöns, B.A., Geol. Survey Sweden, Stockholm. Agric. Geol. Kahlmeter, Dr. Thore, Asst. Publ. Coll. "Katarina," Stockholm. Phys.

Kallstenius, Ewald, B.A., Upsala. Helminth., Oligochata.
 Karlsson, A. W., Reet. Teehn. School, Eskilstuna. Mech. Techn.
 Kellgren, A. G., Klippersbol, Åmål. Bot., Veg. Palæo.\*,
 Kemisk-Mineralogiska Föreningen (Chemists' and Mineralogists' Association), Lund. Pres. Dr. J. M. Lovén, Secr. O. A. Sjöström.
 Kemist Samfundet (Chemists' Assoc.), Stockholm. Pres. Dr. J. A. Nor-

blad, Secr. Dr. A. G. Ekstrand. Key, Dr. Axel, Prof. Pathol. Anat. R. Carol. Med. Surg. Inst. Stockholm,

Editor "Nordiskt Medicinskt Arkiv." Anat.

Keyser, Dr. C. J., late Leet. Teehn. School, Norrköping. Chem. Key-Aberg, Dr. Algot, Prof. Forensie Med. R. Carol. Med. Surg. Inst., Stockholm.

Kihlstedt, K., Upsala. Hort. Kinberg, Dr. J. G. H., late Prof. R. Veterinary Inst., Stockholm. Comp.

Anat., Osttol., Zool. Kindberg, Nils Conrad, Ph.D., Lektor, Linköping. Bot., Bryol. C. Ex. Offers mosses.\*

 Kjellberg, Nils, Engineer, Assoc. Iron Masters, Stockholm. Metallurgy.
 Kjellman, Dr. Frans, Assoc. Prof. Botany R. Univ. Upsala. Phycol.,
 Arct. Phæn. Plants. C. Ex. Scand. Mar. Algæ. Desires esp. Fucoideæ.

Kjellström, A. W., Lect. Techn. School, Örebro. Stone Industry. Klason, Dr. Peter, Prof. Chem. Techn. High School, Stockholm. Techn. Chem.

Klercker, Dr. John af, Fellow High School, Stockholm, Djursholm, near Stockholm. Anat., Physiol. of Plants.

Klinckowström, Baron Axel, Kardnausmakargatan 10, Stockholm. Zool. Kobb, Dr. G., Fellow High School, Stockholm. Math., Phys.

Koble, Dr. G., Docent, Univ., Stockholm. Math., Mech. Koch, Dr. Helge von, Fellow High School, Stockholm. Math., Phys.

Kolthoff, G., Preparator Zool. Mus. R. Univ., Upsala. Ornith.

Krok, Dr. Jonas M., Lect. Publ. Coll., Jönköping. Math. Krok, T. O. B. N., Teacher Publ. Coll. "Södermalm," Stockholm. C. Bot.

Kurek, Baron Clæs, Petersborg, Smedstorp (Prov. Skåne). Geol. Köhler, Eugène, B.A., Teacher Publ. Coll., Strengnäs. Bot. C. Læstadius, Dr. C. T., Teacher Publ. Coll., Umeå. Bot. C. Lagerheim, Dr. G., Preparator Municip. Mus., Tromsö (Norway). Algol.,

Mycol.

Lagerstedt, Dr. Nils Gerh. Wilh., Teacher Publ. Coll. "Östermalm," Stockholm. Bot., Diatoms. C. Lagervall, Birger, Lawyer, Haga, near Stockholm. Bot. C. Lalin, C. T., B.A., Teacher Publ. Coll. "Högre Realläroverket," Stockholm.

holm. Bot., Geol. Lampa, Sven, Entomologist R. Board Agriculture, Stockholm. Ent. Landin, J., Official Chemist, Stockholm. Techn. Chem.

Landtbruks-Akademien, Kongl. (R. Acad. of Agriculture), Stockholm,

founded in 1811. Pres. Dr. P. J. Ehrenheim, late Minister, Secr. Dr. Chr. Lovén.

Lang, Dr. Johan R. T., Prof. Med. Chem. R. Univ., Lund. Chem.

Langlet, Dr. N. A., Sysslomansgatan 3, Upsala. Org. Chem.
Larson, Alf., Engineer, Helsingborg. Techn. Chem.
Larsen, Dr. R., Asst. High School, Stockholm. Phys., Math.
Laurell, Fredrik, Dr., Upsala. Bot., Dendrology, Hort.\*
Laurin, Dr. P. J. G., Lect. Math., Phys. Publ. Coll. "Latinläroverket," Gothenburg.

Leche, Dr. Wilhelm, Prof. Zool. High School, Stockholm. Morphol. of Vertebrates. Desires Mammals in alcohol.

Leffler, Dr. Gösta Mittag-, Prof. Math. High School, Stockholm, Editor "Acta Mathematica," Djursholm, near Stockholm. Math.

Leffler, Dr. Johan A., Teacher High School, Stockholm. Bot. esp. Rosa, Spergulariæ.

Leissner, Ferd., late Dir. Agricult. School, R. Acad. Agricult., Stockholm. Agron.

Lennander, Dr. K. G., Prof. R. Univ., Upsala. Surg.

Lennmalm, Dr. K. G. F., Prof. R. Carol. Med. Surg. Inst., Stockhelm. Neurol.

Neurol.

Lénström, Carl A. E., Dr., Lehrer, Visby. Bot: Phæn. Plants, Ferns. C. Ex.\*

Levertin, Dr. Alfr., Physician, Stockholm. Balneol.

Levin, Miss Maria, Teacher, High School, Stockholm. Algol. C.

Lidforss, Dr. Bengt, Bot. Inst. R. Univ., Lund. Physiol. Plants.

Lignell, Emil, Chief Auctioneer, Gothenburg. Ornith. C. Ex.

Lilienberg, V. E., Capt. R. Corps Road and Water Works, Municip.

Engineer, Stockholm. Hydr.

Liljefors, P. J., B.A., Asst. High School, Stockholm. Phys.

Liljeforg, Dr. Wilh., late Prof. Zool. R. Univ., Upsala. Crust.

Lindberg, G., late Clerk R. Board Commerce, Stockholm. Bot. esn.

Lindberg, G., late Clerk R. Board Commerce, Stockholm. Bot. esp.

Cactea. C. Lindblad, Dr. Mathias Adolph, Dalagatan 24, Stockholm. Mycology.\*

Lindbohm, E. J., Chief Forester, Helsingborg. Forestry. Lindbom, Dr. C. G., Lect. Publ. Coll., Malmö. Chem.

Lindeberg, Dr. C. J., late Lecturer Publ. Coll., Gothenburg, Pres. Resid. Alingsås. Bot. esp. Rubus, Hierac. C. Lindfors, Dr. A. O., Assoc. Prof. R. Univ. Upsala. Obstet.

Lindfors, Dr. A. C., Assoc. Prof. R. Univ. Opsala. Vostet.
Lindgren, Erik, Dir. Roy. Agric. Acad., Exper. Garden, Experimentalfültet, Albano near Stockholm. Bot., Hort.\*
Lindgren, Dr. Hj., Prof. R. Univ., Lund, Dir. Anat. and Histol.
Museum. Anat.
Lindhagen, Arvid., Ph.D., Stockholm. Ast.\*
Lindhagen, Dr. Dan. Georg, Secr. R. Acad. Sci., Stockholm. Astr.
Lindman, Dr. C. A. M., Lect. Publ. Coll. "Högre Latinläroverket,"
Stockholm. (et present traveling in Brazil). Ref. acad. Progradies Stockholm (at present traveling in Brazil). Bot., esp. Bromelia,

Silen., Gen. Biol., Morph. C.
Lindman, Dr. C. F., late Lect. Publ. Coll., Strengnäs. Math.
Lindqvist, Prof. C. A., Dir. R. Veter. Inst., Stockholm. Veter.
Lindskog, Dr. Nath., Lect. Publ. Coll., Kristianstad. Mech.

Lindstedt, Dr. Anders, Prof. R. Techn. High School, Stockholm. Lindström, Axel Fr., State Goologist, Geol. Survey Sweden, Stockholm. Agron. Geol.

Lindström, Dr. C. A., Prof. R. Carol. Med. Surg. Inst., Stockholm.

Lindström, Prof. Dr. Gustaf, Dir. Palæont. Dept. State Mus. Nat. Hist.,

R. Acad. Sci., Stockholm. Palæo. esp. Upper Sil.
Lindström, Gustaf, Asst. Mineral. Dept. State Mus. Nat. Hist., R. Acad.
Sci Stockholm. Min., Anal. Chem.

Lindvall, C. A., late Chief Engin. Bergsund. Mech. Works, Stockholm.

Mech., Glac. Geol. Linnarsson, Ernst, B.A., Teacher Publ. Coll., Sköfde. Bot. Cultivates

and ex. living Plants from North Regions.

Linroth, Dr. K. M., Chief Municip. Physician, Stockholm. Hygiene. Ljungman, Dr. Axel, Lilldal, Tjörn (Prov. Bohnslän). Ichthyol., Echinod. Ljungström, Dr. Ernst, Fellow R. Univ., Lund. Bot., Mycol. C.

Lönnberg, Dr. Einar, Docent Zool., R. Univ., Upsala. Helminthol.,

Ichthyol., Herpetol.\*

Lovén, Dr. Christian, Seer. R. Acad. Agric., Stockholm. Physiol. Lovén, Dr. Fredrik, Forester, Uddeholm (Prov. Vermland). Forestry, Bot., Ornith. C.

Lovén, Dr. J. M., Laborat. Chem. Labor. R. Univ., Lund. Chem.

Lovén, Prof. Dr. Sven, late Dir. Invert. Dept. State Mus. Nat. Hist., R. Acad. Sei., Stockholm. Crust., Moll., Rad., Sponges, Protoz., Invert. Palæo. C. Ex. Lund, Dr. A. Axel W., Tcaeher Publ. Coll., Vestervik. Bot. esp. Rubus.

C. Ex.
Lundell, Prof. Dr. J. A., Univ., Upsala. Phonetics.
Lundberg, Dr. K. N. K., Municip. Physician, Karlstad. Anthr., Ethnogr., Arch.

Lundberg, Dr. Rudolf, Superint. Fisheries R. Board Agrie., Stockholm.

Ichthyol., Invert. living in water.
Lundblad, A., Engineer, Eskilstuna. Stone Ind.
Lundbohm, Hjalmar, State Geol., Geol. Survey Sweden, Stockholm. Stone Ind., Glac. Geol.

Lundell, Dr. J. A., Prof. R. Univ., Upsala. Phonet.

Lundgren, Dr. Bernh., Assoc. Prof. R. Univ. Lund, Dir. Geol. Mus. Palæont. esp. Cret.

Lundgren, J. P., Prof. R. Veter. Inst., Stockholm. Lundquist, Dr. C. G., Prof. R. Univ., Upsala. Math., Mech.

Lundström, Dr. A. N., Fellow R. Univ., Upsala. Bot. esp. Salic., Biol. Lundström, Dr. C. H., State Inspector Mines, Filipstad. Mining. Lyttkens, August, Dir. Landtbruks Inspektör i Kongl Landtbruks Styvel-

sen, Stockholm. Phan. Bot., Agric. C. Ex. seeds, plants.\* Lyttkens, Emil, Dir. Chem. Station and Seed-controlling Office, Nydala,

near Halmstad. Chem. Lyttkens, I. A., Ph.D., Norrköping. Phonetics.\*

Läkaresällskapet, Svenska (Swedish Society of Physicians), Jakobsgatan 19, Stockholm, founded in 1808. Pres. Dr. Edv. Welander, Secr. Dr. M. Souden.

Löfstrand, G., Pract. Geologist, Luleå. Geol., Min.

Löndahl, Dr. H., Fellow R. Univ., Lund. Chem. Lönnberg, Dr. Einar, Docent Zool., Fellow R. Univ., Upsala. Ichthyol.,

Helminth, Herpetol.

Löwegren, G., Dir. Publ. Gardens, Gothenburg. Hort. C.

Löwegren, Dr. M. K., Prof. R. Univ. Lund. Ophthalm.

Magnusson, Dr. Axel, Teacher Publ. Coll., Söderhamn. Bot. esp. Hierac.

Malm, Dr. A. H., Inspector of Sca-fisheries, Göteborg. Ichth., Cet.\* Malmberg, Capt. Fredr. Salomon, Dir. R. Naut. Meteor. Bureau, Stockholm. Met.

Malmberg, Dr. Maur., Prov. Physician, Jönköping. Med. Bot. C.

Malme, Dr. G. O., Upsala (at present traveling in Brazil). Bot. esp. Hierac., Lichen. C.

Malmqvist, C. F., Apothecary, Drottninggatan 71A, Stockholm. Pharm. Chem.

Matematiska Föreningen (Mathematicians' Association), Upsala. Pres. Dr. E. Pfannenstiel, Secr., E. Helmgren, B.A.

Matematisk-Fysiska Föreningen (Mathematicians' and Physicists' Association), Lund. Pres. Dr. J. R. Rydberg, Seer. Dr. G. Granqvist.

Manzelius, R., B.A., Fyrisgatan 4, Upsala. Anal. Chem. Mebius, Dr. C. A., Lect. Publ. Coll. "Realläroverket," Gothenburg. Phys.

Medicinska Föreningen (Physicians' Association), Klarabergsgata 68, Stockholm, founded in 1877. Pres. Dr. Arvid Afzelius, Seer. Dr. Fritz Svensson.

Medin, A., Dir. Public Gardens, Döbelnsgatan 44, Stockholm. Hort. C. Medin, Dr. Oscar, Prof. R. Carol. Med. Surg. Assoc., Stockholm. Padi-

Melander, Dr. C. A., Teacher Publ. Coll., Skellefteå. Bot. C.

Melander, Dr. K. W., Leet. Math., Phys. Publ. Coll., Kalmar.

Melkerson, J. A., Engineer, Bäcka, Orsa (Prov. Dalarne). Stone Ind.

Meves, J., Chief Seer. R. Board Domaines, Stockholm. Ent. C.

Mittag-Leffler, Prof. Dr., Redactenr des Acta Mathematica, Djursholm près Stockholm. Math.\*

Moberg, Dr. J. C., Fellow R. Univ., Lund. Palæo. esp. Cret., Silur. Modin, Erik, Pastor, Sidensjö, Âugml. Orn. C.\*

Mollin, C. L. H., B. A., Teacher Publ. Coll., Norrköping. Math. Molér, Dr. P. C. V., Teacher Publ. Coll., Vesterås. Bot. C.

Moll, Dr. K. Tom, Lect. Publ. Coll. "Högre Realläroverket," Stockholm.

Montelius, Prof. Dr. Oscar, Chief Asst. R. Archæol. Museum, Stockholm. Archæol.

Morell, E. J., Prof. R. Veter. Inst., Stockholm.

Morton, C., Asst. Min. Geol. Inst. R. Univ., Upsala. Min.

Müller. Erik, Prof. (pro. temp.) R. Carol. Med. Surg. Inst., Stockholm.

Müller, John, B.S., M.D., 34 Järnbrogatan, Upsala. Gen. Biol., Anat., Anth., Eth., Philol.\*

Müller, Sven, Engin. Fen Culture Assoc., Jönköping.

Munthe, Dr. Henrik, Fellow R. Univ. Upsala. Glac. Geol., Moll., Diatoms.

Murbeck, Dr. Svante, Vetenskapsakademien, Stockholm.\*

Möller, Dr. Astolf, Lect. Math., Phys. Publ. Coll., Helsingborg.

Möller, Prof. Dr. Axel, Dir. Astron. Observ. R. Univ., Lund. Astr. Möller, Gust. Elis, B.A., Asst., Histol. Inst. R. Univ., Lund. Astr. Möller, Dr. Julius, Leet. Publ. Coll., Lung. Math. Möller, Dr. M., Fellow R. Carol. Med. Surg. Inst., Stockholm. Dermatol. Mörner, Dr. C. T., Connt, Fellow R. Univ., Upsala. Bot., Med. Chem. Mörner, Dr. K. A. H., Count, Prof. R. Carol. Med. Surg. Inst., Stockholm. Devisiol. Chem. holm. Physiol. Chem.

Nathorst, Alfred Gabriel, Ph.D., Prof, Acad. of Sciences, Stockholm.

Bot., Palao., Fossil plants.\*

Nathorst, Prof. Hj., late Dir. R. High School Agriculture, Alnarp, Secr. R. Agric. Soc., Prov. Malmöhus, Lund. Agron.

Naturvetenskapliga Förening, Stockholms (Nat. Hist. Assoc. at Stockholm). Pres. Dr. O. T. Sandahl. Seer, Dr. Simon Nordström.

Naturvetenskapliga Studentsällskapet (Students' Society of Nat. Hist.), Upsala. Pres. Dr. A. N. Lundström; Chem. Section, Secr. Dr. S. Forsling; Botan. Section, Secr. P. S. J. Segerstedt; Zool. Section, Seer. L. G. Andersson; Geol. and Phys. Geogr. Section, Seer. O. Nordenskjöld,

Nauckhoff, Dr. Gustaf, Mining Engineer, Grängesberg (Prov. Dalarne). Pract. Geol.

Neander, Dr. Ehrenfried, Teacher Publ. Coll., Asst. Zool. Mus. R. Univ., Lund. Urnith.

Netzel, Dr. N. W., Prof. R. Carol. Mcd. Surg. Inst., Stockholm. Obstetr., Bot. C.

Neuman, Dr. Carl, Rector Publ. Coll., Borås. Ent., Acari. C. Neuman, Dr. Leopold, Rector Publ. Coll. Ystad. Phan. Flants, esp.

Viola, Rubus, Potamogeton, Sparganium, Ferns. C. Ex. Nilsson, Dr. Albert, Lect. R. High School Forestry, Stockholm. Bot. C. Nilsson, Prof. Dr. L. F., Dir. Chem. Dept. Exper. Grounds, R. Acad.

Agric., Albano, near Stockholm. Agric. Chem. Nilsson, Dr. N. Hj., Dir. Seed-controlling Office, Svalöf (Prov. Skåne). Bot.

Nilsson, Dr. S. J., Teacher Publ. Coll. "Latinläroverket," Göteborg. Bot. C.

Norblad, Dr. J. A., Chemist Rörstrand's Porcellain Manufactory, Stockholm. Techn. Chem.

Nordenmark, N. V. E., B.A., Asst. Astron. Observ. R. Univ., Upsala. Astr.

Nordenskiöld, Adolf E., Baron, Dir. Min. Dept., State Mus. Nat. Hist., Prof. R. Acad. Sc., Stockholm.\*

Nordenskiöld, Gustaf, Acad. of Sciences, Stockholm. Geol., Eth.\*

Nordenskjöld, Otto, Fil. Kand., Upsala. Petrog.\*

Nordenson, Dr. Erik, Physician, Stockholm. Ophthalm.

Nordenström, Gustaf, Prof. R. Techn. High School, Stockholm. Mining.

Nordin, Isidor, Apothecary, Drottningholm, near Stockholm. Ent. C. Nordiska Museet (Ethnographical Museum of the North), Stockholm. Dir., Dr. A. Hazelins.

Nordlund, Dr. G. A., Assoc. Prof. R. Univ., Upsala. Anat. Nordstedt, Dr. Otto, Keeper at the Bot. Mus. Univ., Lund. Editor: "Botaniska Notiser." Bot., Characeæ, Desmids, Freshwater Algæ. C. Ex.\*

Nordström, Dr. Simon, Sec. R. Dept. Eccles. Affairs, Stockholm. Zool. Nordström, Dr. Th., Counselor R. Board Commerce, Dir. Chief Office Mining, Stockholm. Pract. Geol.

Nyberg, Ingemar, State Inspector of Mines, Säfsjö (Prov. Småland). Nylander, Oscar, Dir. Chem. Station and Seed-contr. Office, Skara. Chem. Nyman, Erik, B.A., Kyrkogardsgatan 11, Upsala. Bryol. C.

Nyström, Dr. Edvard Th., Asst. R. High School Agric., Ultuna, near

Upsala. Veter. Odelberg, A. T., Chief Dir. R. Board Agric., Stockholm.

Odelstjerna, E. G. Engineer Assoc. Iron Masters, Bofors (Prov. Orebro). Metallurgy.

Odenius, Dr. M. V., Prof. R. Univ., Lund. Path. Anat.
Olbers, Miss Alida, Nybrogatan 49, Stockholm. Bot. C.
Olbers, E. W., late Teacher R. High School Agric., Alnarp, Lund. Geol.,
Anat. Uhem.

Olbers, Thord, Lilla Vattugatan 30, Stockholm. Peat. Olsson, Dr. K. G., Astron. Observ., Stockholm. Ast.

Olsson, Dr. Olof, Lcct. Publ. Coll., Orebro. Mech. Olsson, Peter, Dr. Phil., Ostersund. Phan. Bot., Meteo., Zool., Invert., Anat., Arch., Ichthyol., Crustacea, Worms.\*

Olsson, T. T., State Mining Engineer, Lund.
Örtenblad, V. Th., Sollefteå. Bot: Phæn. Flants, Anat., Orn.\*
Palıl, Dr. C. N., Leet. Publ. Coll., Umeå. Chem.
Palmberg, Th., Engin. Assoc. Iron Masters, Stockholm. Peat.
Palmer, Dr. Knut Wilhelm, Asst. Chem. Inst. R. Univ., Upsala. Chem. Palmqvist, Miss Augusta, Teacher, Chem. Inst. High School, Stockholm. Hydrogr.

Perman, Dr. E. S., Fellow R. Carol. Med. Surg. Inst., Stockholm. Surg. Persson, J., Apothecary, Regeringsgatan 61, Stockholm. Bryol. C. Petersson, Dr. Oscar Victor, Prof. R. Univ., Upsala. Med.

Petersson, Dr. Valfrid, Pract. Geologist, Drottninggatan 40, Stockholm. Chem., Petr., Min., Mining.

Petrini, Dr. Henrik, Fellow R. Univ., Upsala. Mech.

Pettersson, Fredr., Gardener R. Univ., Upsala. Hort.
Pettersson, Hj., Ph. Cand., Vestervik. Bot. C. of Swedish Myxomycetes. Wish to make exchanges or to buy coll. of Myxomycetes. C. of Swedish Rubi for ex.\*

Pettersson, J. M., Teacher Publ. Coll. "Nya Elementarskolan," Stockholm. Bot. C.
 Pettersson, Dr. Otto, Prof. High School, Stockholm. Phys. Chem.,

Hudrogr.

Pfannenstiel, Dr. Ernst, Fellow R. Univ., Upsala. Math. Pfannenstill, Dr. S. A., Fellow R. Carol. Med. Surg. Inst., Stockholm. Phragmén, E., Prof. d'Analyse à l'Univ., Sec. de la rédaction des Acta Mathematica, Stockholm. Math.\*

Phragmén, Dr. L. J., Rector Publ. Coll., Örebro. Math.

Pihl, A., Direktor. Stockholm. Bot., Hort.\*
Porat, Dr. C. O., Teacher Publ. Coll., Dir. Seed-contr. Office, Jönköping.

Phan. Plants, Myriop. C. Post, Hampus von, late Dir. Chem. Station, R. High School Agric., Ultuna, near Upsala. Glac. Geol., Agric. Chem., Mycol.

Post, Hans von, Min. Eng., S. Möckleby, Degerhamn (Prov. Öland). Coal Mines, Cement.

Post, Tom von, Dir. Seed-contr. Office, Upsala. Bot.

Psilander, Axel Aug., B.A., Asst. Astron. Observ. R. Univ., Upsala. Ast.

Quennerstedt, Prof. Dr. Aug. Wilh., Dir. Zool. Mus., R. Univ., Lund. Comp. Anat., Infus.

Retzins, Dr. Gustaf, late Prof. R. Carol. Med. Surg. Inst., Stockholm.

Anat., Histol., Anth.

Reuterskiöld, B. E. G. C., Apothecary, Drottninggatan 71A, Stockholm.

Pharm. Chem.

Ribbing, Dr. Seved, Prof. R. Univ., Lund. Hygiene. Ringius, Dr. G. E., Teacher Publ. Coll., Ystad. Bot. C. Romell, Lars, Phil. Cand., Editor: "Fungi exsicc. paras Scand.," Sturegatan 56, Stockholm. Mycology. Desires Fungi, sec. or living, from all countries.\*

Rosén, Dr. A., Lect. Publ. Coll., Malmö. Elect.

Rosen, Dr. P. G., Prof. Topogr. Survey, Stockholm. Geod.

Rosenberg, Dr. J. O., Prof. R. Techn. High School, Stockholm. Chem.

Rossander, Dr. C. J., late Prof. R. Carol. Med. Surg. Inst., Stockholm. Ophthalm.

Roth, Dr. Alexander, Prov. Physician, Asum (Prov. Skane). Bot. Roth, C. D. E., Prepar. Zool. Mus. R. Univ., Lund. Ent. Rubenson, Prof. Dr. Robert, Dir. R. Meteo. Inst., Stockholm.

Meteo.

Rudelius, C., Manager Atvidaberg Copper Works, Atvidaberg (Prov. Östergötland). *Metal*.
Rydberg, Dr. J. R., Fellow R. Univ., Lund. *Physics*.
Salin, Dr. Mauritz, Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm.

Gynæcol.

Samuelson, S. H., Engin., Marieberg, near Kil (Prov. Vermland). Peat. Samzelius, J. A. Hugo, Forstmeister, Kgl. Domänstyrelsen, Stockholm. Bot., Zool., Gen. Biol., Eth., Ethnog., Ent. C. Ex.\*

Sandahl, Dr. O. Th., Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm. Bot., Pharmacol., Ent. C.

Sandin, Emil, Göteborg. Zool., esp. Coleopt. C. Ex. Desires Longi-

cornes from all parts of the world for Swedish Beetles and Butterflies. Sells Beetles from Kamerun, Africa.\*

Santesson, Dr. C. G., Fellow R. Carol. Med. Surg. Inst., Stockholm, Present Residence, Upsala. Physiol.

Santesson, Mrs., Upsala. Algol. Santesson, Dr. Henrik, State Geologist, Geol. Surv. Sweden, Stockholm. Analyt. Chem.

Saute, Dr. Henrik, Jr., Geol. Survey of Sweden, Stockholm.\*

Scheele, Götrik von, Dir. Agric. School, Kilanda, Elfängen (Prov-Vestergötland). Agron.

Schillberg, A. J., Apothccary, Hornsgatan 75B, Stockholm. Pharm.\*

Schlyter, C. O., District Judge, Hudiksvall. Bot. C.\*

Schmalensee, G. C. von, Geol. Survey Sweden, Stockholm. Pal. Schmidt, P. L., Asst. R. High School Agric., Alnarp, Åkarp (Prov-Skåne). Veter.

Scholander, Érik, Engineer, Hököpinge (Prov. Skåne). *Techn. Chem.* Schultz, Prof. Dr. Herman, late Dir. Astron. Observ., R. Univ., Upsala.

Present Residence, Stockholm. Ast. Schultz-Steinheil, Dr. C. A., Asst. R. Astron. Observ., Stockholm. Ast. Schött, Dr. Harald, Teacher Publ. Coll., Filipstad. Zool., esp. Collem-

bola. C. Segerstedt, P. S. J., B.A., Bot. Inst. R. Univ., Upsala. Bot. C.

Selander, Dr. N. E., Fellow R. Carol. Med. Surg. Inst., Stockholm. Bucteriol.

Sellergren, G. A., Prof. R. Techn. High School, Stockholm. Mech. Techn.

Sernander, Rutger, B.A., Kyrkogärdsgatan 19, Upsala. Bot., Glac. Geol.

Seth, K. A., Asst. Bot. Inst, R. Univ., Upsala. Bryol. Setterberg, Dr. Carl, Official Chemist, Stockholm. Techn. Chem. Sillén, Dr. Otto, Prov. Physician, Borgholm. Bot. C.

Simmons, H., B.A., Asst. Botan, Inst., R. Univ., Lund. Bot. Sjöberg, Nils, Chief Forester, Luleå. Forestry.

Sjögreen, Carl M., Alvastra. Ent.\* Sjögren, Hj., Prof., Upsala. Min., Geol.\*

Sjöstedt, Y., Fil. Kand., Zool. Inst., Upsala. Zool., Orn., Ent.\* Sjöström, O. A., B.A., Asst. Chem. Labor. R. Univ., Lund. Chem.

Skånberg, Alex., Lect. Publ. Coll. "Nya Elementarskolan," Stockholm.

Chem., Bot. C. Skårman, J. A. O., Phil. Dr., Stockholm. Bot., Geol., Zool.\* Smitt, Frederick Adam, Prof. Naturh. Mus., Stockholm, Dir. Vertebrate Div. Zool., Vert.. Bryozoa.\*

Sohlberg, Dr. K. H., Lect. Publ. Coll., Strengnäs. Meteo. Solander, Dr. Emil, Fellow R. Univ., Upsala. Phys. esp. Magnet. of the Earth.

Sondén, K., Chemist Board of Health, Stockholm.

Spångberg, Dr. Jakob, I.cct. Publ. Coll., Geffe. Ent. C. Stahre, N. L., Prof. Chem., Pharm. R. Pharmaceut. Inst., Stockholm. Pharm. Chem.

Starbäck, Dr. Karl, Storgatan 14, Upsala. Mycol.
Starck, E. M., B.A., Lect. Techn. School, Örebro. Mech. Techn.
Stenström, Dr. K. O. E., Bot. Dept. State Mus. Nat. Hist., R. Acad. Sci.,
Stockholm. Bot. esp. Hierac. C.
Stjernqvist, Olof, Dir. Sced-contr. Office, Stockholm. Bot. Hort. C. Ex.

Stolpe, Dr. Hjalmar, Asst. R. Archæol. Mus., Stockholm. Ethnog., Eth., Anth., Arch. C. Ethnog. Ex.

Stolpe, Mats, State Geologist, Geol. Survey Sweden, Stockholm. Geol. Strandmark, Dr. P. W., Tcacher Publ. Coll., Helsingborg. Bot. C. Glac. Geol.

Strokirk, C. G., Dir. Seed-contr. Office, Hernösand. Bot. C. Strömman, Pehr, Fil. Kand., Upsala Zool.\*
Stuxberg, Dr. Anton, Dir. Zool. Dept. Mus., Gothenburg. Myriop., Crust. C. Ex. Desircs extra-Europ. Batrachia and Reptiles.

Styffe, Knut, late Dir. R. Techn. High Schlool, Stockholm. Meteo. Sundberg, Dr. A.A.R.E., Lect. Math., Phys. Publ. Coll., Falun. Sundberg, C. F., Dir. State Railroads, Luleå. Bot. C. Sundberg, Dr. C. J. G., Labor. Pathol. Anat. R. Univ., Upsala. Histol. Sundberg, J. O., B.A., Teacher Publ. Coll., Kristinehamn. Geol. Svanlund, Fredr., late Dir. Telegraph Office, Karlskrona. Bot. C. Syederus, Dr. M. B., Teacher Publ. Coll. Unsala. Zool. cm. Publ. Coll.

Svederus, Dr. M. B., Teacher Publ. Coll., Upsala. Zool. esp. Tunic. C. Ex.

Svedmark, Dr. Eugène, State Geologist, Geol. Survey Sweden, Stockholm. Petr.

Svenonius, Dr. Fredr., State Geologist, Geol. Survey Sweden, Stockholm. Geol.

Svenson, Göthe Wilhelm, Superintend. Marine Engineers, Stockholm. Mech.

Svensson, Dr. A. W., Teacher Publ. Coll. "Realläroverket," Stockholm. Phys.

Svensson, J., Ph. Cand., Vestervik. *Chem.*, *Phys.*, *Elect.*\* Svensson, Dr. Nils, Lect. Chem., Phys. Publ. Coll., Vestervik.

Svensson, Nen Josef, B.A., Asst. Phys. Inst. Con., Vestervik.
Svensson, Sven Josef, B.A., Asst. Phys. Inst. R. Univ., Lund. Phys.
Särnström, C. G., Lect. R. Techn. High School, Stockholm. Metallurgy.
Söderbaum, Dr. H. G., Fellow R. Univ., Upsala. Chem.
Söderblom, Dr. And. Leon. Axel, Lect. Chalmer's Techn. Inst., Gothen-

burg. Math.
Tanım, Dr. Adolf, Dir. R. Assay Office, Stockholm. Analyt. Chem.,
Meteo.

Tedin, Dr. Hans, Asst. Seed-contr. Office, Svalöf (Prov. Skåne). Bot. Teknologföreningen, Svenska (Swedish Technological Students' Club), Brunkebergstorg 18, Stockholm. Publ. "Teknisktidskrift" (Technical Journal).

Thalén, Dr. Tobias Robert, Prof. R. Univ., Upsala. Phys., esp. Magnet., Spectr. Anal.

Thedenius, C. G. H., Apothecary, Gothenburg. Bot. C.

Thedenius, Fredr., late Lecturer, Stockholm. Bot. C. Théel, Dr. Hjalmar, Prof. and Dir. Invert. Dept. Slate Mus., Stockholm.

Invert. (except Insecta). C. Ex.\*
Thegerström, C. F., Chief Actor R. Theater, Stockholm. Mycol., Lichen. C. Theorin, Dr. P. G. E., Lect. Publ. Coll., Falun. Mycol., Lichen. C. Tholander, Dr. Henrik, Engin. Assoc. Iron Masters, Stockholm. Metall. Thomson, Dr. C. G., Assoc. Prof. R. Univ., Lund. Ent.

Thorburn, Robert M., Merchant, Uddevalla. Conch. C. Ex. Postglac. Shells from Raised Beaches.

Thorell, Dr. T. T., late Assoc. Prof. R. Univ., Upsala. Present Residence

Montpellier (France). Arachn.
Thorstenson, G., Lund ("Vermlands nation)." Carex. C.

Thudén, C. J. A., B.A., Leet. Publ. Coll., Halmstad. Zool. Tiberg, H. V., Mining Dir. Långbanshyttan, Persberg (Prov. Vermland).

Miner., Magn.
Tigerhielm, F. W., Chief Forester, Gefle. Forestry.

D. Prof. der Physiol.

Tigerstedt, Robert, A. A., M.D., Prof. der Physiol., Carol. Inst., Stockholm. Physiol.\*

Timberg, Dr. Gustaf, Asst. R. High School Agric., Ultuna, near Upsala. Phys.

Tiselins, Dr. G. A., Teacher Publ. Coll. "Jakob," Stockholm. Bot. esp. Potamogeton. C.

Tolf, R., Asst. Fen Culture Assoc., Jönköping. Phan. Plants, Ferns,

Mosses, Fungi. C. Torell, Prof. Dr. Otto, Dir. Geol. Survey Sweden, Stockholm. Glac.

Geol. Törnebohm, Dr. Alfred Elis. Practical Geologist, Lecturer on Min. and

Geol., Tekniska Högskolan, Stockholm.\*

Torstensson, Dr. A. O., Gothenburg. Balneol.
Troilius, C. O., late Dir. Gen. State Railroads, Stockholm. Mining, Geol.
Trybom, Filip, First Assistant of Fisheries, Stockholm. Ichth., Ent.,
Carcinology. C.\*

Trysén, Alb. O., State Inspector Mincs, Luleâ.
Tullberg, Tycho, Prof., Ph.D., Upsala. Zool.\*
Törnebohm, Dr. A. E., Lect. Min., Geol., R. Techn. High School, Stockholm, Practical Geologist. Petr., Mining.
Törnqvist, Dr. Sven Leon., Lect. Publ. Coll., Lund. Cambr. Sil. Pal.
Ulffers, E., Mining Eng., Höganås (Prov. Skåne). Coal Deposits. Prov. Ulffers, E., Mining Eng., Höganås (Prov. Skåne). Ulriksen, Fredr., Teacher R. High School Agric., Alnarp, Akarp (Prov. Skåne). Hort. Vallin, C. T., Upsala. Hort. Varenius, B., Helsingborg. Coleopt.\*

Vetenskaps Akademien, Kongl. Svenska (Royal Swedish Academy of Sciences), Stockholm, founded in 1739. Pres. Dr. C. G. Hammarskjöld, Seer. Dr. D. G. Lindhagen.

Vetenskaps- och Vitterhetssamhället (Royal Society of Sciences and Bells)

Lettres), Gothenburg, founded in 1778. Secr. Dr. Johannes Paul-

son, Prof.

Vetenskapssocieteten, Upsala, Kongl. (Royal Society of Sciences at Upsala), founded in 1710. Pres. Dr. H. E. Rydin, late Prof., Secr. Dr. T. R. Thalén.

Vinge, Dr. N. E., Lect. Nat. Hist., Publ. Coll. "Latinläroverket," Gothenburg.

Wærn, Dr. Jonas, Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm.

Pædiatr.

Wahlstedt, A. J. G., B.A., Cand. Med., Asst. Pharmacol. Inst. R. Univ., Lund. Pharm., Chem. Wahlstedt, Dr. L. J., Lect. Publ. Coll., Dir. Seed-contr. Office, Kristian-

stad. Bot. C.

Wallengren, Hans Daniel, Pastor, Farhult, Mjöhult. Phan. Plants,

Ferns, Lepid., Neuropt, Infusoria, Orn. C. Ex.\*
Wallengren, Hans Th. S., Fil. Kand, Amanuens, Zool. Mus., Farhult, Wallengren, Hans Th. S., Fil. Kand, Amanuens, Zool. Mus., Farhult, Mjöhult. Bot: Phæn. Plants, Gen. Biol., Geog. Dist., Morphol., Emb., Anat., Anth., Arch., Eth., Ethnog., Philot., Vert., Mam., Ool., Herpetol., Ichth., Tax., Osteol., Myol., Histol.\*
Wallin, Dr. G. S., Fellow R. Univ., Lund. Chem.
Wallin, Dr. J. A., Inspector National Schools, Kantorp (Prov. Södermanland). Geol.
Wallin, Dr. Karl, Lect. Nat. Hist., Chem. Publ. Coll., Karlskrona.
Wallin, Dr. Curt, Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm. Path. Anat.
Wallroth, C. A., Controller R. Assay Office. Stockholm. Chem. Mates.

Wallroth, C. A., Controller R. Assay Office, Stockholm. Chem., Meteo. Walter, C. R., Dir. Veter. Inst., Skara. Warholm, Dr. A. R., Fellow R. Univ., Lund. Surg.

Warodell, Dr. Emil, Army Surgeon, Ostersund. Bot. C.

Weibull, Dr. M., Assist. Chem. Labor. R. Univ., Lund, Teacher R. High School Agric., Alnarp, åkarp (Prov. Skånc). Chem., Min. Welander, Dr. Edvard, Fellow R. Carol. Med. Surg. Inst., Stockholm.

Suphilid.

Wennerholm, J. G. H., Prof. R. Veter. Inst., Stockholm.

Werner, A., Dir. R. Gardens, Haga, near Stockholm. Bot., Hort. C.

Westberg, C. F., State Inspector Mines, Nora.

Westerberg, Dr. K. A., Lect. High School Agric., Ultuna, near Upsala. Geol.

Westerlund, Dr. Carl Agardh, Teacher Publ. Coll., Ronneby. Malacol. C. Ex. Spec., esp. Palæo-Arctic Fauna.

Westerlund, Dr. E. O. T., Army Surgeon, Enköping. Pract. Med. Westerlund, O., Forester, Lulea. Bot. Westermark, Dr. A. E. T., Prosect. R. Carol. Med. Surg. Inst., Stock-

holm. Anat. Westermark, Dr. F. J. E., Fellow R. Carol. Med. Surg. Inst., Stockholm. Obstet.

Westin, O. E., Lect. R. Techn. High School, Stockholm.

Westling, Miss Charlotta, High School, Stockholm. Zoot.

Westman, A., Dir. Seed-contr. Office, Gefle. Bot. C. Westman, Jonas, B.A., Asst. Meteo. Observ. R. Univ., Upsala. Meteo.

Wetterdal, Gust. Ludv., State Mining Engineer, Falun. Mining.\*
Wiberg, Nils, Post-Officer, Gothenburg. Coleopt. C. Ex.
Wiborgh, Joh. Gust., Prof. R. Techn. High School, Dir. Higher Mining

School, Stockholm. Metallurg. Wide, Dr. A. G., Dir. R. Gymn.-Orthop. Inst., Stockholm.

Widen, Jonas, Dir. Chem. Station, Örebro. Agric., Chem. Widman, Dr. Oscar, Assoc. Prof. R. Univ., Upsala. Analyt. Chem. Widmark, Dr. Johan, Assoc. Prof. R. Carol. Mcd. Surg. Inst., Stock-

holm. Ophthalm.

Wigert, Turc, B.A., Meteor. Observ. R. Univ., Upsala. *Phys.*, *Meteo*. Wijkander, Prof. Dr. August, Dir. Chalmer's Techn. Inst., Gothenburg.

Phys., Meteo., Ast. Wiman, Dr. Anders, Fellow R. Univ., Lund. Math.

Wiman, Carl, Fil. Kand., Sturegatan 17, Upsala. Palæo., Strat. Geol.\* Wimmerstedt, Prof. Dr. A., R. Forensic Chemist, Stockholm. Med. Chem.

Winberg, Prof. Dr. Hugo, Dir. R. High School Agric., Alnarp, Akarp (Prov. Skåne). Agron. Winslow, Dr. A. P., Teacher Publ. Coll. "Latinläroverket," Gothenburg.

Bot. esp. Rosæ and Sal. C.

Wirén, A., Dr. Ph., Prof. der vergleichenden Anat., Upsala. Zool., Anat., Solenogastres, Annelida.\*

Wiström, Dr. Joh. Alfr., Teacher Publ. Coll., Hudiksvall. Phan. Plants,
 Coleopt., Lepid. C. Ex. Lepid., Endog. Plants.
 Witt, T., Mining Engineer, Falun. Min.

Witterhets-, Historic- och Antiqvitets Akademien, Kongl. (R. Academy of Literature, History and Antiquities), Stockholm, founded in 1786. Secr. Dr. Hans Hildebrand.

Wittlock, Dr. J. A. Z., Army Surgeon, Vexiö. Arch., Ethnogr. Wittrock, Dr. Veit B., Mitglied der Akademie, Prof. Bergianus, Dir. des Gartens und des botanischen Museums, Stockholm.

Wulff, H. A., Dir. Agricult. School Applerum, Kalmar. Agron. Wästfelt, A. U., Seer. Seed-contr. Assoc. Centr. Sweden, Orcbro. Agron. Yhlen, Gerhard von, late Inspector of See-fisheries, Känsö, Gothenburg. Zool., Ichthyol.

Zander, Dr. Gustaf, Fellow R. Carol. Mcd. Surg. Inst., Stockholm. Med.-Mech. Gymnast.

Zoologisk-Geologiska Föreningen (Zoologists' and Geologists' Association), Lund. Pres. Dr. D. Bergendal, Secr. Hans Wallengren.

Ågren, F., B.A., Dir. Seed-contr. Office, Lulea. Bot. Åkerblom, Filip, B.A., Asst. Meteor. Observ. R. Univ., Upsala. Meteo., Phys.

Åkerhichn, Baron Mauritz, Leet. R. High School Agric., Ultuna, near

Upsala. Veter. Åkerman, Dr. J. H., Fellow R. Univ., Lund. Surg.

Åkerman, Dr. Riehard, Dir. Gen. R. Board Commerce, Stockholm. Iron

Ångström, Dr. Knut, Asst. Dir. Phys. Inst. R. Univ., Upsala. Phys., Spectr. Anal.

Ångström, Dr. C. A., Prof. R. Techn. High School, Stockholm. Hydraul. and Mech. Engineering.

Öberg, Dr. Pehr, State Mining Eng., Dir. School of Mines, Filipstad.

Öberg, Dr. Vietor, Rector Peasant High School, Tranas (Prov. Smaland). Geol.

Ödmansson, Dr. Ernst, Assoc. Prof. R. Carol. Med. Surg. Inst., Stockholm. Syphil.

Öhrvall, Dr. Hjalmar, Asst. Dir. Physiol, Labor. R. Univ., Upsala. Phy-

Örtenblad, V. T., Forester, Sollesteå (Prov. Vesternorrland). Phan. Plants, Ornit.

#### SWITZERLAND.

Andreae, V., Fleurier. 'Bot: Phan. and Crypt. Plants, Mosses, Hort., Inorg. Chem., Mic., Gen. Biol., Geog. Dist. C. Arndt, L., Neuchatel. Ast.

Autran, Eugène, Charmilles, Genève. Hemoptères palèarctiques. Avenarius, Prof. Dr. R., Klosbachstr. 53, Hottingen-Zurich. Philos. Bader, Pharmacien, Geneva. Bot.

Baltzer, Dr. A., Prof. Geol., Univ., Berne. Strat. Geol., Min. Bamberger, Prof. Dr. Eugen, Frof. der Chem., Zürich. Chem.\* Barbey, William, Valleyres sous Rances (Vaud). Bot. C.

Baroey, William, Valleyres sous Rances (Vaud). Bot. C. Bazzigher, Lucius, Chur. Lepid.
Bedot, Maurice, Dr. Sc., Dir. du Musée d'Hist. Nat., Geneva. Zool., Invert. Anat., Eth., Ethnog., Radiates.
Benteli, R., Berne. Lepid.

Béraneck, Dr. Ed., Prof. à l'Akad., Neuchatel. Vert., Emb.
Bernet, T., Conserv. de l'Herbier Delessert à Genève. Bot.
Bernoulli, Dr. Wilhelm, Schartlingasse 4, Basel. Phæn. Bot., Ferns. C. Ex. Desires correspondents.
Bertsch, Prof. Hreh., Neukirch-Egnach, Thurgau. Phys., Chem.

Bertschinger, C., Mus. Geol., Lansanne. Geol.

Besse, M., Chanoine à l'Abbaye de Saint-Maurice, Valais. Min., Inorg. Chem., Physics, Elect., Photog., Orn., Ent. C. Ex. birds. Biandet, Dr., Bex. L. and F. W. Shells. Ex.

Bieler, Arenur Agassiz, Lausanne. Mic. Blanc, H., Prof. Dr., Lausanne. Zool. Bloeseh, Carl, Laufenburg. Coleopt., Lepid.

Boeschenstein, A., Schaffhausen. Coleopt., Leptu.
Bolthauser, Heinrich, Sekundarlehrer, Amrisweil, Thurgau. Bot: Phæn.
and Crypt. Plants, Fungi, Mie.\*
Boos, Prof. Dr. Heinrich, Univ., Basel. Palæo.
Bourget, Dr., Prof. à la Faculté de Médicine, Lausanne. Org. Biol.,

Pharmacol. C. Ex.

Briquet, John, Docteur-ès-seiences, Privat-Docent de bot. à l'Univ., Sous-Conserv. de l'herb. Delessert. 5 rue de l'Eveché, Genève. Phan. Plants (Labiatæ), Geog. Dist. of Plants in Europe. C. Ex.

Brot, Dr., Route de Malagnou 6, Geneva. Con: L. and F. W. Shells.\* Brückner, Dr. Edward, Prof. Geogr., Univ., Berne. *Phys. Geol.*, *Meteo.*\* Brugger, Prof. Dr. Ch., Coire. *Bot.*Brun, Alb., Pharmacien, Licensić-ès-Sciences, Place St. Gervais à Genève.

Mic. (Materia medica et Diatomées.)

Brun, Jacques, Prof. à la Faculté de Médecine, Geneva. Diatoms. C. Ex.

Bugnion, Dr. E., Prof. Anat. and Emb., Univ., Lausanne. Zool., Gen. Biol., Geog. Dist., Morphol., Emb., Anat., Anth., Histol., Coleopt.\* Buiot, Paul, Geneva. Zool.

Buren, Eugene von, Bernc. Ent. C.

Burghard, Fr., Wädensweil. Bot., Ent., Lepid., Coleopt. C. Ex.\*

Burnat, Emile, Promenade an Pin 1, Geneva. Bot.

Buser, Dr. Robert, Conserv. de l'Herbier de Candolle à Genève. Rosa, Galix.

Caderay, Jul., Lausanne. Phys., Elect.
Calloni, Silvio, Prof. Nat. Hist., Pazallo près Lugano. Bot., Anim. Dist.
Condolle, Dr. Casimir de, Cour de St. Pierre 3, Geneva. Bot.\*

Chappuis, F. L. A., Boudry. Bot.
Chavannes, Rev. Sylvius, Lausanne. Geol.
Chenevard, Paul, Avenuc de la Granade à Genève. Bot.

Chodat, Robert, Dr.-ès-Sei., Prof. de Bot., Univ., Geneva, Boulevard de Plainpalais 13. Bot: Phæn. and Crypt. Plants, Polygalaceæ.\* Christ, Dr. H., rue St. Jacques 5, Basel. Syst. and Geog. Botany, Carex, Filices, Marine Alga.\*

Chuard, Ernest, Prof. de Chimie Agric. à l'Univ. de Lansanne et à l'Inst. Agric. du Ct. de Vaud, Lausanne. Min., Inorg. Chem. U. of rocks

and minerals of agricultural importance. Ex. Coaz, T., Inspecteur Forestier de la Suisse à Berne. Bot.

Cornaz, Edouard, Dr. Med., Neuchâtel. Phan. Bot., Ferns. C. Ex.

Correvon, H, Dir. du jardin Alpin d'Acclimatation à Genève. Bot.

Cottet, Mich., Canonicus, Gruyere. Roses. Courvoisier, Prof. Dr. L. G., Basel. Lepid.

Cramer, Prof. Dr. Carl Eduard, Adlcrburg Stadelhofen, Zurich. Bot : C. Crypt., esp. Alyæ.\*

Custer, C. A., Dr. Med., Rheineck (St. Gall). Bot.
Davall, A., Inspecteurforestier à Vevey. Bot.
Dodel, Arnold, Prof. Dr., University, Zurich. Bot., Mic., Physiol.\*
Dodel, Louise, Dr. Phil., Assist. am Botan. Lab. der Univ., Zurich. Bot.,

Mic., Physiol., Photog.\*

Dæbeli, Sam., Aarburg. Coleopt. Doge, François, La Tour-de-Peilz (Vaud). Palæo., Geol. C. Dor, Dr. Henri, Vevay (Vaud). European Coleopt. Ducret, Dufour, Moudon (Vaud). Coleopt. C. Ex. Dufour, Arthur D., Capitaine (Vaud). Coleopt. C. Ex.

Dufour, Henri, Prof. de Physique, Univ. de Lausanne. Physics, Meteo.\*

Dufour, Dr. Prof. Jean, Station viticole, Lausanne.

Dunant, Vietor, Geneva. Geol., Min. Duparc, L., Prof., Geneva. Min.

Du Plessis, Dr. G., Montchoisi, near Orbe. Coleopt. Escher, Dr. J. J., Zurich. Bot. Escher, Kündig, Zurich. Ent.

Esternod, A., Prof., Dir. Lab. d'Histol. Normal et d'Emb., Geneva. Fatio, Dr. Victor, rue Massot 4, Geneva. Zool., Gen. Biol., Geog. Dist.,

Vert. Anat , Mam., Orn., Ool., Herpetol., Ichthyol., Hemipt. C.

Favrat, Dr. Auguste, Lausanne. Rubi, Musci. Favrat, Prof. Louis, Lausanne. Rosæ, Hieracium, Rubi.

Favre, Ernest, 6 rue des Granges, Geneva. Geol.

Fecr, Dr. Henri, Geneva. Campanulaceæ. Felix, Walther, Dr. Med., Zurich, Platten Str. 30. Anat., Emb., Histol., Vert.

Fellenberg, Edmund V., Dir. du Musée Archéol. et Ethnog. ct des collections Min. et Géol. du Musée d'Hist. Naturelle, Bernc. Strat. Geol., Min., Lithol., Arch., Ethnog. Fischer, Eduard, Dr. Phil., Privat-docent der Bot., Stadtbach 26, Berne.

Bot: Crypt. Plants, Fungi.\*

Fischer, Dr. Ludwig, Prof. Bot., Univ., Berne. Gen. Bot.\* Fischer-Sigwart, Hermann, Zofingen. Min., Zool., Biol., Orn., Herpetol. C.\*

Flesch, Dr. M., Prof. Univ., Zurieh. Anat.
Fol, Prof. Dr. Herm., Vandœuvres près Geneve. Zool.
Forel, Auguste, Prof. Univ., Dir. Heilsanstalt Burghölzli, Zurich. Ant.,
Biol. of Insects, Anat. of Brain of Vertebrates. C. Ex. Formicariæ of the world, or will purchase. Forel, Dr. F. A., Prof. à l'Université de Lausanne, Morges. Phys. and

Nat. Hist. of Lakes and Glaciers.\*

Forster, Dr. Aime, Prof. Physics, Univ., Benrc. Physics., Elect.

Frey, Dr. Hans. Teacher Nat. Sci., Gymnasium, Berne. Chem., Geol. Frey, Gessner E., Conserv. des Collections Ent., Muséc d'Hist. Nat., Geneva. Ent: esp. Swiss Hemipt., Orthopt., Mellifera and Chrysi-

des. C. Ex. Gaule, J., Prof. Physiol., Med. Fac., Zurich. Tripanosoma, Cytozoa.

Ganthier, L., Lausanne. Ent. Gautier, Maurice, Dr. és Sci., rue de l'Hotel de Ville 14, Genève. Chem.\*

Gautier, R., Prof. Univ., ruc Ch. Bonnet 6, Gencva. Ast. Geiger, Dr. F., Basel. Bot.

Gétaz, Auguste, Prof. Collège International, Morillon, Genève. Neuropt.,

Arach., Myriopt. C. Ex.\* Girard, Dr. Ch., Berne. Emb. Girardet, François, Morges. Bot. Girtanner, Dr. Karl, St. Gall. Bot. Godet, Charles, Neuchatel. Ent.

Godet, Paul, Dir. Adjoint du Musée d'Hist. Nat. de Neuchatel. Con. C. Ex.

Golaz, Charles, Bex. Bot. Goll, Hermann, Dr. Phil., Conservateur du Musée, Avenue de la Gare 1, Lausanne. Zool., Vert. Anat., Orn., Ichth., Ent.\*

Golliez, Henri, Prof. Geol., Lausanne. Gruner, R. Sigrist, Berne. Gen. Ent. Guillaume, G., Neuchâtel. Ent.

Guinet, Auguste, Route de Carouge 64, Plainpalais, near Geneva. Bot., Bryology. C.\*

Gutzwiller-Gonzenbach, Prof. A., Basel. Geol.\*
Guye, Pr. C., Eng., 83 Route de Chène, Geneva. Physics.\*
Guye, Philippe A., Prof., Chem. Lab., Univ., Geneva. Chem.\*
Hagenbach-Bischoff, Edward, Prof., 20 Missionsstr., Basel. Physics.\*
Hambert, Dr. Alvis, Mus. d'Hist. Nat., Geneva. Zool.

Heer, Tschudi, Lausanne. Coleopt. Hegetschweiler, Dr. Chas., Riffersweil (Zurich). Mosses, Lichens. Heierli, Jakob, Privat-Docent Préhist. Arch., Zurich.\*

Heim, Dr. Albert, Prof., Dir. Collect. Géol. de l'Univ. et de l'Ecole Polytechn., Hottingen, Zurich. Phys. Geol., Lithol.

Hemming, Joh. Jul., Privat-Docent, Zurich. Geol.

Hipp, Dr. M., Fluntern. near Zurich. Elect.

Hirsch, Adolphe, Dir. de l'Observ., Neuchâtel. Physics., Elect., Meteo., Ast.

Hofer, Isidor, Ph.D., Rector, Unterkulm. Aarzan. Moll., Ichthyol. C. Honegger, J. J., M.D., Maneggstr. 5, Zurich. Anat. of brains of vertebrates.

Huguenin, Dr. Gustav, Zurich. Geog. Dist., Bot: Phæn. Plants, Mic.,
Zool., Morphol., Invert. Anat., Histol., Articulates, Ent., Lepid.,
Dipt., Coleopt. C. Ex.
Imhof, Emil, Ph.D., Znrich. Zool.
Ischer, Gottfr., Mett, bei Biel. Geol.
Jaccard, Prof. H., Aigle. Ent., Bot.

Jack, Joseph B., Constance. Crypt. Bot., Hepatica.
Jaques, Jean, T. T. Vetter. Botaniste à Orbe. Phan. Plants. C. Ex.

Jaquet, Dr. Maurice, Asst. Zool. Inst., Geneva.

Jenner, J., Cust. Mus., Berne. Ent.
Joerin-Gerber, Ernst, Villa Diana, Zurich. Bot., Zool., Orn., Ent.,
Hymenopt., Lepid., Coleopt. spec. Carabidæ.

Joos, Dr. Emil, Schaff hausen. Min. Jordan, Et., Pharmacien, Neuchâtel. Bot.

Kahlbaum, Georg W. A., Dr. Phil., Prof., Basel. Chem., Physics.\* Kammormann, A., Geneva. Ast.

Keller, Dr. Conrad, Prof. Polytechn., Zurich. Comp. Anat., Mic. C. Ex.

Keller, Dr. Robert, Rector des Gymnasiums, Winterthur. Phan. Plants,

Mosses. C. Kenngott, Procher des Gymnastines, Winterdat. That. I. Mosses. C. Kenngott, Prof. Dr. Adolph, Univ., Zürich. Min.\* Kissling, Dr., Teacher Nat. Sci., Secondary School, Berne. Geol. Klebs, Prof. E., Univ., Zurich. Pathol. Pathol. Anat., Histol. Knecht, Henri, Rosengartenweg 3, Basel. Coleopt. Koher, Dr. J. Basel. Zool.

Kober, Dr. J., Basel. Zool.

Koby, Prof. Fréd. Louis, Porrentruy. Geol.

Kollbrunner, Emil, Frauenfeld. Geol.

Kollmann, Prof. Dr. J., Basel. Anat., Emb., Anth. Desires Crania of Indians in ex. for European, espec. Swiss; Embryos of Telcosts, Selachians and Reptiles, well preserved for microscopical dissection.\*

Kostanecki, Dr. v., Prof. Org. Chem., Univ., Berne \*

Kübler, J. J., Ph.D., Neftenbach. Mic., Bot, Zool., Geol.\* Kündig, Jacob, Ph.D., Privat-Docent, Hirslanden, Zurich. Bot: Phæn. and Crypt. Plants, Ferns, Mosses, Alga, Emb. C. Ex. Landolt, II., Sparenberg, Engstringen (Zurich). Ent.

Lang, A., Prof. Dr., Zürich. Zool.
Lang, Prof. Franz, Solothurn. Geol.
Langhans, Prof. Th., Univ., Berne. Pathol. Anat., Parasites.
Léonard, Ad., 1 Bourgfelderstr., Basel. Ent., Lepid.

Le Royer, Alex, Geneva. Phys.

Leutwein, Charles, Diemerswyl, kt. Berne. Min., Geol.

Lindt, Dr. W., Berne. Lepid.

Lippe, Gottlieb, Bâle, 51 Spalenberg. Lepid. C. Ex. Loeventhal, N., Prof. Dr., Lausanne Histol., Embryol.

Lorch, Jules, Dr. Med., Couvet (Canton de Neuchâtel). Bot. C. Ex.

Lorez, Apotheker, Zurich. Lepid.

Loriol, Perceval de, rue des Chanoines, Geneva. Lepid., Echinoderms,

Lunel, Alph., Grand Bureau 477, Geneva. Ent.

Lunge, George, Ph.D., Prof. Techn. Chem., Hottingen, Zurich. Inorg. Chem.\*

Mackenzie, William, Kleinberg (St. Gallen). Microg.

Mallet, Ch., Geneva. Bot.
Märki, Charles, rue Caroline, Carouge. Coleopt.
Markow, Eugen, Russie Ministère des Finances, Naegelistrasse 3, Zurich.

Geol., Phys., Meteo., Ast., Phys. Geog.\*
Martin, Rudolf, Dr. Phil., Docent der Anth., Univ. u. am Eidg. Polytechnicum, Zurich, Seefeld Str. 119. Anth., Eth., Morphol. Ex. of Anth. Objects, Crania, etc. Desires Photographs of Human Races.\*
Mayer, Prof. Karl, Ph.D., Hottingen, Zurich. Geol., Palæo.

Meuron, Pierre de, Docteur ès Sciences, Neuchâtel. Emb., Ichthyol.

Meyer, Prof. R. von, Univ., Zurich. Osteol., Anat. Micheli, Marc, Château du Crest par Jussy, Geneva. Bot.\*

Miescher, Prof. Dr. Friedrich, Sr., Univ., Augustinergasse 21, Basel. Pathol., Anat.

Montmollin, Aug. de, Neuchâtel. Geol.

Morthier, Dr. Paul, Corcelles, near Neuchâtel. Phæn. and Crypt. Bot. C. Ex.
Mösch, K., Ph.D., Dir. d. Zool. u. Con. d. Gcol. Sammlungen am Poly-

tech. u. d. Univ., Oberstrass, Zurich.

Moser, Henri, Schaffhausen. Eth., Ethnog.

Mühlberg, Fritz, Prof. der Kantonschule, Con. des Kantonalen Naturhist. Mus., Aarau. Bot., Palæo., Strat. Geol., Min., Lithol. C. Ex. Müller, A., 195a Junkerstr., Berne. Ent.

Müller, Dr. Fr., Basel. Zool.

Müller, Prof. Dr. Johann, Univ., Dir. Bot. Gard., Boulevard des Philoso-

phics, 8, Geneva. Bot.

phics, 8, Geneva. Bot.

Müller, Max, Birsigstr. 115, Basel. Lepid.

Müller-Thurgau, Prof. Dr.. Dir. in Wädensweil. Bot., Physiol., Fungi.

C. Pflanzenkrankheiten.\*
Naville, Dr. E., Malagny, Geneva. Egyptian Arch.
Nicoud, Louis, Chaux-de-Fonds. Orn., Ool.\* Nüesch, Dr. J., Schaffhausen. Eot., Zool.\* Odier, James, rue de la Cité 24, Geneva. Coleopt. Ott, Carl, Hirschengraben 99, Zurich. Phys.\* Overton, Dr. E., Zürich. Protozoa. Palaz, A., Prof., Lausanne. Math., Phys.

Paravicini, Luis, Bascl, 3 Holbeinstr. Lepid. C. Ex.

Perrot, F. Louis, Dr. ès Sciences, 8 rue Hôtel de Ville 8, Geneva.

Crystall., Physics.\*

Piaget, Edouard, Bayards, Ncuchâtel. Ent. C. Pictat, Alphonse, 1 Promenade du Pin, Geneva. Orthopt.

Pictet, Amé, Cours de Bastions, Geneva. Chem. Plüss, Dr. Benj., Basel. Nat. Hist.

Privat, Eugène, 18 Chemin du Mail, Geneva. Bot., Orn. C. Ex. Rapin, Daniel, Route de Carouge, Geneve. Bot.

Ratzer, A., Büren (Berne). Lepid. Renevier, Eugène, Prof., Univ., Lausanne. Geol., Palæo.\* Rey, Gustave, Prof. de Sci. Nat. du Collège, Vevay. Geol.

Rhiner, Joseph, Schwyz. Bot: Phæn. Plants, Ferns. Rhyner, Adolf, Chaux-de-Fonds. Geol.

Riggenbach, Dr. Albert, Assist am Bernoullianum (Univ. Observ.), Basel. Ast., Meteo.\*

Riggenbach-Stehlin, F., Freiestr., Basel. Ent., Lepid.\*

Rillick, Alb., Prof. Univ., rue Bellot, Geneva. Phys. Rollicr, Louis, Conserv. de la Collection Paleo., Musée de Berne.

Romieux, Henry A., 25, Florissant, near Geneva. Bot. C. Ex. Phanerogams, especially Hieracium.\*

Rossel, Prof. Dr. Arnold, Dir. du Lab. Analytique de l'Univ. de Berne, Dir. de la Station de Controle, Berne. Chem. C. Ex.

Rühl, Fritz, Präsident der Societas Ent., Zurieli. Lepid., Coleopt. Ex. Rutimeyer, Dr. Ludwig, Prof. Comp. Anat., Univ., Rennweg 2, Basel. Salis, Frdr. von, Chur. Geol.

Sans, Frur. von, Chur. Geot.
Sandoz, Dr. P., Chaux-de-Fonds. Bot.
Sarasin, Edw., Geneva. Phys. Geol.\*
Saussure, Henri dc, Cité 24, Geneva. Ent., Crust., Myriopt., Hymenopt., Orthopt., Zool., Eth., Vert., Anth., Geol., Volcanoes, Prehist. Hydroxides. drology, Agric.\*

Schalch, Ferd., Ph.D., Schaffhausen. Geol.

Schenk, Bernhard Ramsen, Kt. Schaffhausen. Paleo.

Schenkel, Ehrenfried, Horburgstr., Basel. Coleopt., Arach., Crustacea.\* Schenker, Erhard, Chef der eidg. Munitionscontrole, Thun. Chem. Schinz, Dr. Hans, Docent der Botanik a. d. Univ. u. dem Polytechnikum,

Seefeldstr., Zurich. Phan. Bot. C. Ex.

Schlatter, Theodor, St. Gall. Bot. Schmid, Walther, Basel. Coleopt.

Schmidely, A., Ruc Argeaud à Geneva. Bot.

Schneider, Gustav, Naturalienhändler, Zool. Inst., Basel. Con., Vert. and

Invert. in Spirits. C. Ex. Schnetzler, Prof. Dr. Jean B., l'Acad. de Lausanne. Bot.

Schoch, Dr. G., Dir. des Coll. Ent. du Musée d'Hist. Nat., Plattenhof, Fluntern, Zurich.

Schröter, Carl, Dr. Phil., Prof. der Bot. am Polytechnicum, Mercurstr.

30, Hottingen, Zurich. Phæn. Plants. C. Ex.\*

Schumacher, H., Berne. Ent. Schwab, Alfred, Berne. Min.

Seitz, Dr. Johannes, Plattenstrasse 7, Hottingen, Zürich. Medicine.\*
Siegfricd, Hans, Winterthur. Vaste herbier de première qualité. Culture
de Potentillæ Européennes et exotiques. Distribution des "Exsic-

catæ Potentillarum spontanearum cultarunique." Ex.\*

Sire, Engenc, Neuchâtel. Bot. Soret, Prof. Charles, Univ., St. Antoine 22, Geneva. Min., Phys. Spiess, Charles, Pharmacist, Porrentruy (Berne). Ent., Coleopt., Lepid., Rearing larvæ. C. Ex. only specimens in first-class condition.

Stadler, Dr. August, Zürich. Phil.\* Stähelin-Bischoff, B., Basel. Ent., Coleopt. Standfuss, Max, Ph.D., Custos am Mus. des Polytech., Zürich. All kinds of Insects. C. Ex.
Steck, Dr. Theodor, Conserv. de la Collection Ent. au Musée de Berne.

Ent., Hymenopt., Lepid., Coleopt., Hemipt., Orthopt.
Stein, C. W., St. Gall. Geol.
Stierlin, W. G., M.D., Schaffhäusen. Ent., Coleopt.
Stilling, Dr. H., Prof. extr. Anat. et Physiol. Path., Univ. de Lausanne.

Stöcklin, Niclaus, Rosengartenweg 13, Basel. Herpetol., Ent., Lepid., Coleopt. C. Ex.\*

Stöhr, Philipp, Dr. Med, o. Prof. der Univ., Zürich-Hottingen, Engl. Viertel 20. Emb., Vert. Anat., Histol.

Stoll, Dr. Otto, Prof. a. d. Univ., Kussnacht, near Zurich. Arach.,

Mosses.\*

Studer, Theophil., Dr., Prof., Dir. Zool. Mus., Hotelgasse 14, Berne. Geog. Dist., Orn., Radiates. Ex.

Suchannek, Hermann, Dr. Med., Zürich, Bahnhofstr. Anat., Histol. C. Desires publications.\*

Sulger, E., Malzgasse, Bascl. Lepid. Sulger. Hans, Basel. Min., Ent., Coleopt. Täschler, Max, St. Fiden, St. Gall. Lepid., Coleopt.

Tavel, Franz von, Dr. Phil., Docent of Bot., Zürich V. Bot., Fungi. C. Ex.\*

Thury, Prof., Univ., Geneva. Bot. Toerin, Zwinger St. Bernhard, Zürich. Zool. (Kynologie).

Tournier, Henri, Villa Tournier, Peney, near Geneva, et rue Croix d'Or 18, Geneva. Ent., Coleopt., Hymenopt., Dipt., Hemipt. C. Ex. Tribolet, Maurice, D.S., Prof. Acad., Neuchâtel. Palæo, Geol., Min., Crystall., Lithol.

Tripet, Fritz, Prof. de Bot. à l'Acad. de Neuchâtel, Dir. de la Soc. helvéti-

que pour l'échange des plantes. Bot. C. Ex.

Vionnet, P. L., Etoy (Vaud). Geol. Vöchting, Prof. Dr. H., Univ., Basel. Bot.

Vogler, Dr. C. Heh., Schaffhausen. Ent.
Vogt, Dr. Adolf, Ordent. Prof. der Hygiene u. Sanitäts-Statistik an der
Hochschule, Spitalgasse 178, Berne. Hygiene, Epidermology.
Vogt, Dr. Carl, Dir. Lab. Vergl. Anat. u. Mikroskopie, Geneva. Human

Parasites, Pedicellina, Mammals, Palceo, Comp. Anat., Fishes. Von Schulthess, Rechberg d., M.D., Zürich. Hymenopt., Vespidæ.,

Orthopt.

Wartmann, Prof. Dr. B., St. Gall. Cryptogams.

Waters, Arthur Wm., F.L.S., Villa Vecchia, Davos Dörfli. Bryozoa, fossil and recent. C.

Wattenwyl-von-Montbenay, Fd. von, Berne. Geol.

Wolf, Prof. F. O., Sion. Hieracia. Dir. des jardins bot. dans les alpes de la Swisse.

Wolf, J. Rudolf, Prof. u Dir. der Sternwarte, Zurich. Ast.
Wolfersberger, R., Riessbach, bei Zurich. Ent., Diatoms.
Wullschlegel, Secundarlehrer, Aarburg. Lepid.
Wurstemberger, Dr. Arnold R. C. de, Zürich. Geol., Min., Chem.,

Phys., Elect. C.

Yung, Dr. Emile, Geneva. Zool.

Zeller, Rudolf, Balgrist, Hirslanden, Zurich. Lepid., Biol. of Lepid.

Zollikofer, Casp., Pasteur à Marbach, St. Gall. Bot. Zollikofer, E. H. (Präparator), St. Gall. Orn., Ool.\*

Zschokke, Fritz, Prof. Zool., Basel. Zool.

#### ASIA.

#### CEYLON.

Gunaratue, D. A., Conductor Royal Bot. Gardens, Badulla. Halv, A., Dir. Colombo Museum. Gen. Zool.
Hastings, R. C., Colombo. Con.
Trimen, Dr. Henry, M.B., F.R.S., F.L.S., Dir. Royal Bot. Gardens,

Peradeniva. Zoysa, A. de, Muhandiram, Henaratgoda, Conductor Royal Bot. Gardens.\*

#### CHINA.

Bonnell, Rev. W. B., M.A., Shanghai. *Chem.*, *Phys.* Carrall, James W., F.G.S., Lond., &c., Office of Customs, Amoy. *Geol.*,

Mining.

Doberck, Dr. Wm., M.R.I.A., Hongkong Observatory.\*

Douthwaite, Rev. A. W., M.D., F.R.G.S., Chafoo. Hist., Mic., Edkins, Rev. Joseph, D.D., Shanghai, Orientalist. Philol., Biol. Faber, Ernst, Ph.D., Shanghai. Bot., Philol. Hist., Mic., Photog.

Figg, F. G., Hong Kong. Ast. Ford, Chas., F.L.S., Botanic Gardens, Hongkong. Bot.

Fryer, John, LL.D., Shanghai. *Philol.*, *Photog.*Henry, Augustine, M.A., L.R.C.P. (Edin.), F.Z.S., Care of Customs, Shanghai. *Econ. Bot.* 

Hunter, Rev. S. S., M.A., M.D., Isiningchow. Philol.

Kerr, John, M.D., Canton. Philol. Kilborn, Omar L., M.A., M.D., Chentu, West China. Bot. C. Little, L. S., M.D., General Hospital, Shanghai. Ast., Physiol. Macgowan, J. D., M.D., Shanghai. Philol. Mathews, Percy W., M.D., LL.D., F.R.G.S., F.I. Inst., Shanghai. Zool.,

Ethnog.\*

McBride, F. E., M.D., Lin Ching, via Tien-tsin. Min., Mic. C. Ex. Pott, Rev. F. L. Hawks, B.D., St. John's Coll., Shanghai. Phys. Geog., Geol.

Robinson, Henry H., M.A. (Oxford), Prof. Chem., Hankow.

Russel, Samuel M., Imperial Coll., Pekin. Ast.
Thomson, Jos. C., M.D., Macao. Ethnog.
Skertehly, Sydney B. J., F.G.S., M.A.I., late of H. M. Geol. Survey of England; Consulting Geol., Kowloon, Hongkong. Bot: Phan. Plants; Geol., Photog., Gen. Biol., Geog. Dist., Anth., Arch., Eth., Ent., Lepid. C. Ex.

Wilson, W., M.B., Hanchong. Chem.

### COREA.

Slovtsof, Ivan Dir. Real Schule, Tumen. Vert., Arch., Phanerogams.

# COCHIN CHINA.

Dumoutier, Gustave, Directeur de l'enscignement public de l'Annam et du Tonkin, Hanoi (Tonkin). Bot., Geol., Min., Bibliog., Zool., Anth.,

Arch., Eth., Ethnog., Philol. C. Ethnog. et Préhist. Arch. Ex. Landes, —, Resident de Francc, Hanoi. Bot., Geol., Min., Zool., Arch., Eth., Ethnog., Philol.

Taupin, Jacques, Directeur du Collège des Interprètes, Hanoi (Tonkin). Bot., Geol., Min., Zool., Arch., Eth., Ethnog., Philol.

#### DUTCH EAST INDIES.

Weyers, J. L., Indrapoera, Sumatra's West coast. Ent., Conchology. C. (Home address, rue Joseph II., 35, Bruxelles, Belg.)\*

# FRENCH INDIA.

Sada, A., Jardin Colonial, Pondicherv. Med. Bot.

### INDIAN EMPIRE.

- Aitken, E. H., Salt. Dep't., Bombay. Gen. Nat. Hist.
  Alcock, A., Surg. Nat., Ind. Marine Sur. Steamer "Investigator." Fish,
- Stony Corals, Asteroidea.

  Barnes, Lieut. Henry E., F.Z.S., Memb. Brit. Orn. Union and Bombay
  Nat. Hist. Soc.. Commissariat Dept., Bombay. Orn., Ool. C. Ex.
- in Ool. Correspondence desired.\*
  Bingham, C. T., Major, Conser. of Forest, Maulmain, Burma. Hymenopt.,
- Lepid.\* Blyth, T. R., Mus., Assist., Gcol. Survey of India, Indian Mus., Calcutta.
- Bombay Natural History Society, H. M. Phipson, C.M.Z.S., Hon'y Sec'y,
- Bose, P. N., B.Sc., F.G.S., Lond., Geological Survey Office, Calcutta. Bourne, A. G., D.Sc., C.M.Z.S., F.L.S., Prof. of Biol., Presidency College, Madras.
- Cameron, J., Fellow Linnæan Soc., Bangalore. Bot: Phæn. and Crypt.
  Plants, Ferns, Hort., Palæo., Geol., Min., Zool., Gen. Biol., Geog.
  Dist., Morphol. Vert., Mammals, Ool., 1ax. C. Plants. Ex.
  Chapman, R. L., Asst. Sec., Indian Museum, Calcutta. Arch.\*
  Cooke, Samuel, M.A., Assoc. M. Inst., C.E., F.I.C., F.G.S., F.R.G.S.I.,
  Cor. M.R.H.S., Principal in the College of Sciences, Poona, (Bombar) Ex. of Min\*.

- bay). Ex. of Min.\* Cotes, E. C. Deputy Supt., Indian Museum, Calcutta. Gen. Ent., Eco-
- nomic Ent., Insects.\*

  Cunningham, D. D., M.B., F.R.S., F.L.S., C.M.Z.S., Prof. Physiol.,
  Medical Coll., Calcutta, and special Asst. to the Sanitary Comm'r
- with the Govt. of India.
  Curtis, Chas., F.L.S., Asst. Supt. Forest Dept. Bot. Gard., Penang, Straits Settlements. Bot.
- Datta, P. N., B.Sc. (Lond.), F.G.S., Geol. Survey of India, Calcutta.

Davidson, I., C.S., Bijapur. Orn.

De Nicéville, Indian Museum, Calcutta. Lepid.

Derry, Robert, Asst. Supt. Forest Dept., Malacca Bot. Garden, Malacca,

Straits Settlements. Bot.

Dey, Kanny Lall, Rai Bahadoor, C.I.E.; G.M.C.B.; 4 Beadon St., Calcutta. Bot., Chem., Phys., Elect., Mic., Photog., Hist. C. Indigenous Drugs.\*

Dey, Preo Lall, F.C.S. (Fellow Chemical Soc. London); Memb. Pharmaceutical Confer. and Soc. of Chem'l Industry, London; Manufacturer of Non-Alcoholic Lime Juice. 4 Beadon St., Calcutta. Chem. Phys.. Elect., Mic., Photog.\*

Doyle, P., 19 Lall Bazar St., Calcutta. Ast.

Duthie, J. F., B.A., F.L.S., Dir. Botanical Dept., Northern India, Saharanpur (N. W. Prov.). Bot.\*

Eccles, Jesse, Army Schoolmaster, "King's Own," Nasirabad, Rajputana.

Orn., Ool., Numis, Philately. C. Ex. esp. Philately.\*

Fischer, Robert, B.L., F.R.S.L., F.A.S.L. (Barrister-at-Law, Lincoln's

Inn), Madura, Madras. Anth.\*

Foulkes, Rev., T., Retired Chaplain, Salem, Madras.

Fex, Walter, Asst. Supt. Garden and Forest Dept., Botanic Gardens,

Singapore. Bot., Hort.\*

Fraser, O. L., 2nd Asst. to the Supt., Indian Museum, Calcutta. Vert. Gamble, J. Sykes, M.A., F.L.S., Dir. Imp. Forest School, Dehra (N.W. Prov.). Bot: esp. Bamboos.

Giles, G., Surg., Laurence Asylum, Sonawar, Simla.
Gleeson, John M., Supt., Agri.-Horticultural Gardens, Teynampett,
Madras. Bot., Hort., Mic., Emb., Hemipt.\*
Gollan, Wm., Supt. Govt. Botan. Gardens, Saharanpur, N.W.P. Bot.,
Mosses, Hort. C. Ex.\*

Goodenough, James S., Asst. Supt. Gardens and Forests, Malacca. Bot.,

Elect. C.\* Government Central Museum, Edgar Thurston, Superintendent, Madras. C.\*

Greisiger, Dr. Michael, Szepes-Béla. Orn., Coleopt.

Griesbach, C. L., C.I.E., F.G.S., Geol. Survey of India, Geol. Survey

Office, Calcutta.

Hauxwell, T. A., Maulmein, Burma. Orn., Lepid., Coleopt. C. Ex.

Haviland, George D., M.A., M.B. Cantab., M.R.C.S., London, Cur.

Raffles Mus., Singapore. Bot., Geog. Dist., Eth., Mam., Orn.,

Herpetol., Hymenopt.\*

Henderson, J. R., M.B., F.L.S, Prof. of Zoology, Christian College, Madras. Crustacea (Pagurida), Moll. C. Is desirous of obtaining Paguridae from any part of the world, and will give in ex. Indian crustacea or other zool. spec. Will also ex. Indian moll. for Indian species.

Hira, L., Sub-Asst. Surveyor, Geol. Survey of India, Indian Mus., Calcutta.

Hughes, Theo. W. H., C.E., A.R.S.M., F.G.S., Geol. Survey of India' Calcutta.

Indian Museum, Calcutta. Vert., Invert., Arch., Eth. Jayakar, S.A.G., Surgeon, Lieut. Col. H.M. Indian Army, Museat, Arabia.

Mic., Photog., Zool., Philol., Mammals, Ichthyol.

Kennedy, Wm. A., Curator, Lloyd Bot. Garden, Darjeeling, Calcutta.

King, Dr. Geo., C.I.E., Supt. of Royal Bot. Gard., Shibpur, Calcutta. King, Wm. B.A., D.Sc., F.G.S., Dir. Geol. Survey of India, Calcutta. Invert.\*

Kirtikar, K. R., Surgeon Major, I.M.S., M.R.C.S. (Eng.), L.R.C.P

- (Lond.), Civil Surgeon, Shana, near Bombay. Bot: Crypt. Plants,
- Kishen, S., Sub-Asst. Surveyor, Geol. Survey of India, Indian Mus., Calcutta.
- Lace, John H., F.L.S., Forest Dept., Punjab. Bot: Phan. Plants, Ferns. C.
- La Touche, T. H. D., B.A., Geol. Survey of India, Calcutta.
- Lawson, M. A., M.A., F.L.S., Gov't. Bot., and Dir. Gov't Cinchona Plantations, Ootacamund, Madras.
- Lee, W. A., 38 Strand, Calcutta. Mic., Ast., Gen. Biol. C. Mic.\* Marshall, Col. G.F.L., R. E., Seeretary of the Govt. Punjab, P.W.D., Simla. Orn., Lepid. (Rhopalocera).

  Middlemiss, C. S., Geol. Survey Office, Calcutta.

  Mysore Government Museum, Supt., J. Cameron, F.L.S., Curator, B.

- Santappah, Bangalore \* Nicéville, L. de, F.E.S., C.M.Z.S., 13 Kyd St., Calcutta. Lepid. Offers to ex. Asiatic Rhopalocera, or books on the same, for his "Butter-flies of India, Burmah and Ceylon." Nicholson, William Robert, Barrack Master, Military Works, Bombay.
- Lepid., Philately. C. Ex. Oceana stamps in particular.\* Noeting, F., Ph. D., Palæontologist, Geol. Survey of India, Calcutta.\* Oldham, R.D., A.R.S.M., F.G.S., Gcol. Survey of India, Indian Mus.,
- Caleutta. Pantling, R., 1st Assist., Government Cinchona Plantations, Mungpoo, Sikkim.
- Parker, I., Serampore, Bengal. Orn. Ex. Birds' Eggs.
- Parkes, Joseph, 2nd Assist. Government Cinchona Plantations, Mungpoo, Sikkim.
- Pedler, A., F.I.C., Prof. Chem., Presidency Coll., Calcutta, Metco. Reporter to Govnt. Bengal, 5 Russell St., Calcutta.

- Peel, S. E., Sibsagar Asam. Ast.
  Phipson, H. M. (C.M.Z.S.), Hon. Sec. Bombay Nat. Hist. Society, 6
  Apollo St., Bombay. Vert., Snakes.
  Pogson, Miss E. Isis, F.R. Met. Soc., Meteo. Reporter to the Gov. of
  Madras, Nungumbankum, Madras.
- Prain, D., M.A., M.B., Cur. Herbarium, R. Bot. Gardens, Shibpur, near Calcutta. Bot.\*
- Proudlock, Robert L., Curator, Royal Bot. Gard., Seebpore, Calcutta.

  Bot., Hort.\*
- Reid, Geo., Naini Tal, Kumaon. Orn.

- Ridley, Henry N., M.A., F.L.S., Dir. Gardens and Forests, Straits Settlements, Bot. Gardens, Singapore. Phan. Plants, East Indian Plants, Orchids. C. Ex. East Indian Plants.
  Ridley, Matthew, Supt. Govt. Gardens, Lucknow. Bot., Hort.
  Scully, J., Surg-Major, Assay Master, Calcutta Mint. Vert., Orn., Mam. Smythies, A., B.A., Deputy Dir. Imp. Forest School, Dehra Dun (N.W. Prov.). Formicide. C. Will ex. Indian Ants for Ants from any
- part of the world.\*
- Storey, T. H., Supt. Hort. Gardens and Parks, Oodeypore, Bombay.
  Underwood, Edward F., M.D., F.R.M.S., etc., etc., Aurist and Gynacologist, 79 Meadow St., Fort, Bombay. Mic., Photog. C. Ex.\*
  Waterhouse, Col. James, Surveyor-Gen's Office, Calcutta.
  Woodrow, George Marshall, Leet. in Bot., Coll. of Sci., Poona. Bot. C. Ex. Offers plants of the Deccan for those of other countries.

- Wloughton, R. C., Forest Dept., Bombay. Myrm. (Ants).

# JAPAN.

Andrews, Rev. W., Hakodate. Lepid.\* Boeddinghaus, C. E., Nagasaki. Coleopt., Lepid., Shells, etc. Collection of beetles and shells.

Fujii, K., Science Coll., Imperial Univ., Tokio. Bot., Gen. Biol.\*

Goto, Seitaro, Zool. Inst., Imperial Univ., Tokio. Zool., Worms.\*
Gulick, Rev. John T., Ph.D., Osaka. Gen. Biol., Geog. Dist., Moll. C.
(shells). Ex. L., F.W. and M. Shells of Japan, and L. Shells of Hawaiian Is.\*

Hori, Shotaro, Agric. Exper. Station, Tokio. Bot: Fungi, Phyto-Pathel.

C. Ex.\*
Ichikawa, W., Science Coll., Imperial Univ., Tokio. Fungi.
Ijima, I., Ph.D., Prof. Zool., Science Coll., Imperial Univ., Tokio. Zool.

Ikeda, S., Agric. Coll., Imperial Univ., Tokio. Zool., Amphibia.
Ikeno, S., Assist. Prof. Bot., Agric. Coll., Imperial Univ., Tokio table Anat.\* Vege-

Isawa, S., Pof., 50 Dairokutencho Koishikawa, Tokio.\*
Ishikawa, C., Ph.D. (Freiburg, Germany), Prof. Zool., Agric. Coll., Imperial Univ., Tokio. Zool: Cells.\*
Ito, Shinrokuro, Rigakushi, 11 Hisakatamachi, Koishikawa, Tokio.

Chem., Tech.
Ito, Keisuke, D.Sc., Memb. Imp. Acad., Tokio, 14 Masagocho, Hongo,

Tokio. Bot.\*

Ito, Tokutaro, F.L.S., 83 Shichikencho Nichomé, Nagoya, Aichiken. Bot., Gen. Biol.\*

Iwakawa, T., Prof. Zool., Higher Normal Sch., Tokio. Zool.

Jimbo, Kotora, Geol. to the Hokkaidōchō, Imperial Univ., Tokio. Geol. Ex.

Kada, Teichi, Geol. and Mining Eng., Chiofu, Nagato, Yamaguchiken. Geol., Min.

Kametaro, Toyama, Agric. Coll., Imperial Univ., Tokio. Zool.\*

Kato, H., President Dept. Law, Sci. and Lit., Univ., Tokio Daigaku,

Tokio. Kishinouye, K., Science Coll., Imperial Univ., Tokio. Zool., Arach.,

Cælenterata.

Kuwabara, M., M.E., Care of Messrs. Fujita and Co., Osaka. Min., Metall.

Metaut.

Loew, Oscar, Ph.D., Tokio (Komaba). Agric. Chem.\*

Loomis, Rev. Henry, Yokohama. Ent., Hymenopt., Lepid., Dipt., Orthopt., Coleopt., Hemipt., Neuropt., Crustacea, Mollusks. C.\*

Matsubara, Shinnosuke, Lect. Biol, Imper. Univ., Tokio.

Matsuda, S., Science Coll., Imperial Univ., Tokio. Bot.

Matsuniva, Fig. Prof. Ret. Div. Bot. Caydon, Science Coll., Imperial

Matsumura, Jinzo, Prof. Bot., Dir. Bot. Garden, Science Coll., Imperial Univ., Tokio. Phæn. Plants.
 Mitsukuri, Kakichi, Ph.D. (Balto.), Prof. Zool., Science Coll., Imperial

Univ., Tokio. Zool., Morphol., Emb.\*

Miyabe, Kingo, S.D., Sapporo Agric. Coll., Sapporo. Bot: Phæn. Plants, Fungi, Algæ. Ex\*
Nakamura, Kiohei, Fukushima-ken. Phys., Math.
Namiye, M., Science Coll., Imperial Univ., Tokio. Zool., Vert.

Nawa, J., Normal Sch., Gifu, Mino. Ent.\*

Nozawa, Shunjiro, Fishery Dept. of the Hokkaidochs, Sapporo. Ichthyol.

Okamura, K., Science Coll., Imperial Univ., Tokio. Marine Alga.\*
Okubo, S., Assist. Prof. Bot., Science Coll., Imperial Univ., Tokio, Bot.\*

Sasaki, S., Rigakuhakushi, Prof. Zool., Agric. Coll., Imperial Univ., Tokio. Zool., Sericulture.

Saida, K., Prof. Higher Normal School, Tokio. F. W. Algæ.\*

Shimomura, Kotaro, B.Sc., Prof. Chem., Harris School of Sci., Doshisha, Kyoto. Chem., Physics.

pathol.

Shunjiro, Nozawa, Fishery Bureau, Hokkaidōchō, Sapporo. Ichth.,

Moll.\*

Takagi, Prof. T., Educational Mus., Tokio. Min.
Tnouve, T., 11, Higashikobaichio Surugadai, Tokio. Ophthalmology.
Tsuboi, S., Science Coll., Imperial Univ., Tokio. Anth.
Wakabayashi, K., Science Coll., Imperial Univ., Tokio. Anth., Arch. Yokoyama, Matajiro, Geol. Survey, Tokio. Geol., Veg. Palæo. Yoshida, Hikorokuro, Rigakushi, Ph.D., Asst. Prof. Chem., Science Coll.,

Imperial Univ., Tokio, Chemist to the Govt. Printing Bureau, Tokio, Member Soc. Chem. Industry, Fellow Chem. Soc. (London), Tokio.

#### SIAM.

Haase, Dr. Erich, Dir. R. Siamese Mus., Bangkok, Siam (formerly Privat-Docent Zool. Univ., Königsberg). Biol., Morphol.\*

# RUSSIA (IN ASIA).

Abels, Hermann, Dir. Magnetical and Meteo. Observ., Yekaterinboorg. Earth Magnetism, Meteo., Hypsometry.

Clerc, G. O., Sec. de la Soc. ouralienne des Sci. nat., membre corresp. de l'Acad. des Sci. de New York, de Smithsonian Inst., Membre actif ou corresp. de plusieurs Sociétés russes, suisses et françaises, Yekaterinboorg. Phæn. Plants. Meteo., Arch., Herbier. de l'Oural. Karo, F., Nertschinsk. Bot: Phæn. Plants. C. Will sell. Krause, Hieronimus, Taschkent. Pharm., Bot. Mauritz, Tatiana, Nertschinsk. Bot., Hort.\*
Müller, Paul, Ph.D., Assist. Dir. Magnetical and Mcteo. Observ., Yekate-

rinboorg. Earth Magnetism, Meteo.

Oschaninn, Basil, Dir. Tashkent Gymnasium for Girls, Tashkent. Hemipt., Geog. Dist. C. Ex. Skalozooboff, Nicolas, Candidar Agron. Krasnoufimsk, Gov. of Perm.

Bot., Geog. Dist.

Slowzow, Ivan Jakovlevitsch, Dir. de l'Ecole réale, Tumèn Tobolskaja Goubernia, Siberia. Bot., Zool., Arch. C. Ex. Wilkins, Alexander, Exper. Agric. Station, Tashkent. Gen. Biol., Geog.

Dist., Anth., Ent.

# TURKEY (IN ASIA).

Porter, Prof. Harvey, Ph.D., Beyrut. Arch.\* Post, Dr. George E., Prof. Syrian Protestant Coll., Beyrout, Syria. Bot. C.\* Sikora, E., Beyrout, Syria. Zool.

#### AFRICA.

### ALGERIA.

Albison, Prof., Constantine. Bot.

Ancey, C. F., M.C.S., Administrateur-adjoint, Drael Mizan. Coleopt., Chrysididæ, Shells. C. Ex. L. and F. W. Shells only for cash or other specimens. Ex. publications etc. on Conchology.

Augeard, Oran. Coleopt.
Bataille, Libr., Alger. Bot.
Battandier, Prof. A., Med. Sch., 9 rue Desfontaines, Mustapha. Bot:

Phæn. Plants.

Benoit, Dr. en Med., Arba. Hemipt.
Blanc, Marius, Naturaliste, Tunis. Tax., Mam., Orn., Reptiles, Crust.,

Insects. Sell and Ex. Chardonnier, V., Hamma. Bot. Contan, André, Cherchell. Bot: Phæn. Plants, Ferns, Moll. C. Ex.\*

Debray, Prof. à l'Ecole Superieure des Sciences, Alger. Bot.\* Denis, C. P., Capt. d'Artillerie, Alger. Coleopt.

Doumergue, Prof., Oran. Bot., Herpetol.

Doutté, Ed., Attaché au gouvern. génér., Alger. Moll.

Dubiez, Instituteur, Duvivier. Bot. C.

Ficheur, Prof. de Géol. à l'Ecole des sciences, rue Michelet 69, à Alger-Mustapha.

Flamand, Préparateur, chargé de conférences á l'Ecole supérieure des sciences, à Alger-Mustapha.

Foubert, Eug., Oran. Mammals, Birds.

Gay, Hyppolyte, Membre de Comité d'Etudes de la Soc. Française de Bot., Instituteur à Crescia. Bot: Phæn. Plants, Hort. C. Ex. Seeds.\*

Gentil, Préparateur à l'Ecole des Sciences, à Alger.

Gouin, Henri L., Commissaire Equêteur du Service de la Propriété Indigène, rue de Michelet 37, Agha-Superieur. Geol., Min., Living Moll., M., L. and F. W. Shells. C. Ex.\*

Gouvion, Fortuné, Alger. Bot. Grandjean, Instituteur, Ain-Temouchent. Bot.

Hagenmuller, Dr., Chirurgien en chef à l'Hopital civil de Bône, 5 rue de l'Arsenal. Con. C. Ex. L. and F.W. Shells. Offers especially those of Spain, France, Italy, Corsica. Wishes specimens (not marine) of all parts of the globe.

marine) of all parts of the globe.

Heinz, Agents des pontes et Chaussés, Constantine. Palæo.

Herail. Prof., Mustapha-Agha. Bot.

Hesling, Edm., Mustapha. Bot. C. Lepid.

Jobert, Constantin, Pres't du Tribunal, Blida. Coleopt.

Lallemant, Charles, Pharmacien à l'Arba. Bot., Coleopt., Hemipt.,

Orthopt., Moll. C. Ex.

Lapeyre, A., Constantine. Coleopt.

Lemoinc, Oran. Ent. Mathieu, Paul, Boulevard Segnin 22, Oran. Coleopt.\*

Moisson, Avocat, Oran. Ent., Con.
Pallary, Paul, Prof. (Eckmühl-Noiseux), Oran. Vert. Palæo., Geol.,
Invert. Anat., Anth., Eth., Moll. C. Ex.\*
Pomel, A., Correspondant de l'Institut, ancien Sénateur, Dir. du service géol. de l'Algérie, Dir. honoraire de l'Ecole des Sciences, rue Rovigo, 72, à Alger.

Seigliere, Francis Emile de la' Cherchell. Palæo., Geol., Min., Crystall., Lithol., Arch., Moll. C. Ex. Desires to exchange rocks, minerals or Mediterraneous shells for rocks, volcanic rocks, minerals or shells of the world.\*

Thery, André, St. Charles par Philippeville. Coleopt. Désire échanger des Buprestides et Cerambycides du globe.\*

Thiriat, Xavier, à Maillot (Prov. d'Alger). Gen. Ent., Coleopt. of Algeria.
Tournier, Alf., Oran. Con. C.
Viguier, Dr. Camille, Dir. Zool. Station, Alger. Echinod., Invert., Anat.

### CANARY ISLANDS.

Maffiottey La-Roche, Miguel, Luz 108, Sta. Cruz de Teneriffe (Teneriffe). Wildpret and Schenkel, Orotava, Canary Islands. Horticulturists.\*

# CAPE COLONY.

Bairstow, S. D., F.L.S., Cradock. Mollusca, Lepid., Osteol., Coleopt. C. Ex.\*

Bolus, H., Kenilworth, near Cape Town. Bot.\*
Brady, J. H., M.A. (Oxon.), Department of Public Education, Cape
Town. Coleopt. C. Ex. Coleopt. except European, wanted in ex.

Brown, J. G., New Market, North End, Port Elizabeth. Mammals, Orn., Tax. C. Ex.\*

Butters, J., Curator St. Park, Port Elizabeth. Bot. C. Ex.

Chaplin, G. I., Port Elizabeth. Moll. C. Ex. Chaplin, John Gauntlet, Port Elizabeth Con.

Craib, Jas., M.A., Prof. Math. and Nat. Sci., Somerset East. Bot., Physics. C. Ex.\*

Crawford, James, care of J. C. Kemsley & Co., Port Elizabeth. Mollusca. C.\*

Diège, I. L., Port Elizabeth. Aves.
Edington, Alexander, M.B., C.M., F.R.S.E., F.R.P.S.E., Dir. Colonial
Bacteriol. Inst., Grahamstown. Bot: Fungi, Algæ, Mic., Photog., Gen. Biol., Physiol., Pathol., Histol.\*

Farquhar, D., 33 Upper Hill St., Port Elizabeth. Mollusca. C. Ex.\*

Farquhar, J., Port Elizabeth. Bryozoa.

Fisk, Rev., Cape Town. Rept.\*

Fraser, D. D., Western Road, Port Elizabeth. Geol. and Palæo. of Cape Colony.\*

Gill, David, LL.D., F.R.S., Hon. F.R.S. (Edinburgh), F.R.A.S., Corr. Memb. Acad. of Sciences, Berlin, St. Petersburg, etc., H. M. Astronomer, Royal Obs., Cape of Good Hope.\* Hallack, R., Port Elizabeth. Bot.

Lesley, J. M., Port Elizabeth. Reptilia, Min. C. Ex.
Lightfoot, Robert M., Bree St., Cape Town. Coleopt: esp. Cicin., Carab.,
Hister., Longicornia. C. Ex. Cape for those of other countries.
Mac Donald, A. C., M.R.A.C., F,H.A.S., Agricultural Assistant, Dept.
of Agric., Grahamstown.\*

MacOwan, Peter, F.L.S., F.R.H.S., Government Botanist, Cur. Cape Gov't Herbarium, Capetown. Bot: Phæn. and Crypt. Plants.\*

Marloth, Rudolf, Ph.D., M.A., Capetown. Bot., Chem., Mic.\*
Muir, Thos., M.A., LL.D., F.R.S.E., Superintendent-General of Educa-

tion, Capetown. Math.\* Péringuey, L., Asst. Cur. S. African Mus., Cape Town. Ent. C.\*

Perrins, G. R., Port Elizabeth. Mic.

Roth, Jean, Naturalist and Collector, Port Elizabeth. Geol., Gen. Zool.

Rous, H., Port Elizabeth. Coleopt. C. Ex. Schönland, Selmar, Hon. M.A., Oxon., Ph.D., F.L.S., Curator Albany Museum, Grahamstown. Shopland, E. R., Com'd'r R.I.M., Aden. Moll., esp. Cypida, Oliva, Cones

and Harpa. C. Ex.\*

Sim, Thos. R., Curator Bot. Garden, King William's Town. Bot: Phan. and Crypt. Plants, Ferns, Hort. C. Ex.\*

Smith, J. C., Curator Gardens and Public Parks, Graaff, Reinet.

Stroud, Dorothy, Pretoria, S.A.R. Ferns, Geol., Min., Lithol., Articu-

Stroud, Dorothy, Pretoria, S.A.R. Ferns, Geot., Min., Lithot., Articulates, Ent., Hymenopt., Lepid., Dipt.

Stroud, Jas. Wm., M.D., F.L.S., F.G.S. (London), Pretoria, S.A.R. Ferns, Geol., Min., Lithot., Articulates, Ent., Hymenopt., Orthopt., Neuropt., Arach., Myriop. C. Ex.

Tidmarsh, Edwin, Botanic Gardens, Grahamstown. Bot.

Trimen, Roland, F.R.S., F.L.S., F.Z.S., F. Ent. S., etc., Cur. of South

African Museum, Cape Town. Ent: Lepid.\*

Volschenk, J. E. A., Riversdale. Coleopt. Ex. Cape Coleopt. for

foreign.

West, Faraday, Port Elizabeth. Arach.

West, Miss, Port Elizabeth. Bot. West, Oliver, Russel Road, Port Elizabeth. Lepid., Coleopt. C. Ex. Wilms, Frederik, Phil. Dr., Lydenburg, Transvaal. Coleopt. a spec., Bot., Ent. C. Ex. Woods, Chas. Ray, Astro-Photographer, Royal Obs., Cape of Good Hope.

Photog., Ast., Chem.

### CONGO.

Grenfell, Geo., F.R.G.S., Bolobo, Upper Congo, Africa. Navigation Charts, Geog. of Congo.

Lewis, Rev. J. Manville, Mukumviki, Congo River. Collector of Savage

Curios and rare African Animals and Plants.

Sims, H., M.B., C.M. (Aberd.), American Baptist Missionary Union,
Leopoldville, Stanley Pool, The Upper Congo, S. W. Africa. Med.\*

#### EAST AFRICA.

Cox, Lieut. P. Z., Assist. Political Resident, Zaila. E. Africa via Aden. Orn., Ool., Con. C. Ex.\*

#### EGYPT.

Blomfield, R. M., Rear Admiral R. N., Alexandria. *Phæn. Bot., Hort.*Deflers, Albert, Rue Babel-Hadid, Cairo. *Bot: Phæn. Plants, Ferns.*C. Ex.
D'Hulst, Count R., Cairo.
Kaiser, Alfred, Alaian el Mahdi, Propriétaire de la Station Scientifique,

Kaiser, Alfred, Alaian el Mahdi, Propriétaire de la Station Scientifique,
Tôr, Sinai près Suez. Phæn. Plants, Algæ., Invert. Palæo., Geol.,
Photog., Meteo., Gen. Biol., Geog. Dist., Emb., Mammals, Orn.,
Herpetol., Ichthyol., Osteol., Hymenopt., Dipt., Coleopt., Hemipt.,
Orthopt., Neuropt., Arach., Crust., Moll. C. For Sale.\*
Lhotelleric, Madame de, Alexandria. Con., Geol., Arch. (Egyptian,
Greek and Roman), Numis. (Greek and Roman).\*
Menberger, E. S., Prof., Cairo, Egypt. Ex. Egyptian Flora.
Sonsino, Prospero, Mikrographe Laboratoire Khédivial, Cairo.

#### GAMBIER.

Carter, Hon. Gilbert T., C.M.G., Administrator Bot. station, Gambia.

### MADAGASCAR.

Baron, Rev. Richard, Antananarivo. Bot., Geol., Lithol. C. Sikora, Franz, Naturalist, Antananarivo (via Marseille). Ed., "Madagascarensa" (German), Spec. post free. Ferns, Mosses, Fungi, Lichens, Palæo., Mic., Photog., Zool., Emb., Anth., Ethnog., Mam., Ool., Herpetol., Ichth., Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt., Arach., Myriop., Crustacea, Worms, Moll. 5 lists of Nat. Hist. objects and scientific photographs.

#### LIBERIA.

Collins, Guy N., Liberia Coll., Monrovia, Lib. [and Mertensia, Ont. Co., N.Y.] Myriopoda. C. Ex.

Cook, O. F., Jr., Liberia Coll., Monrovia. Bot., Zool., Ent. C. Ex.
Will make collections in any group, for sale, or in exchange for Myxomycetes or Myriopoda.

# MAURITIUS.

Boname, P., Dir. Agric. Station, Mauritius.\*

Daruty de Grandré, J. M. R. Albert, Supt. of Museum, Supt. of Botanical Gardens, Sec. of Royal Soc. of Arts and Sciences, Pres. of Soc. of Acclimation, Dir. of "Revue Agricole," Dir. of the "Microbiological Laboratory," Port Louis. \*\*Nat. Sci., Biol., Biol., Zool. C. Ex. Horne, John, F.L.S., Dir. Dept. of Forests and Bot. Gard., Pample-

West, W. Wade, Port Luis. Con. Mauritius Shells in ex. for others (bivalves excepted).

# NATAL.

Haygarth, Walter J., care of Medley Wood, Esq., Cur. Bot. Gardens, Durban. Ent., Hymenopt., Lepid., Dipt., Coleopt., Hemipt., Orthopt., Neuropt. C. Ex.\*
Wood, J. Medley, A.L.S., Supt. Natal Bot. Gar., Durban. Bot: Ferns, Fungi. C. Ex. Dried spec. of Natal Plants.\*

## WEST AFRICA.

Chatelain, Heli, U. S. Consul, Loanda (via Lisbon). Geog. Dist., Anth., Eth., Ethnog., Philol., Tax., Ent., Lepid., Geog. C.

#### OCEANICA.

# AUSTRALIA.

#### NEW SOUTH WALES.

Anderson, William, Geol. Surveyor, Dept. of Mines, Sydney. Baker, R. T., Tech. Mus. Domain, Sydney. Bot. Barrow, G. H., North Sydney. Eth. Bäuerlen, W., Tech. Mus. Domain, Sydney. Bot. Blakeman, G., Riley St., North Sydney. Bot. Blakeman, G., Riley St., North Sydney. Bot. Blakeman, G., Riley St., North Sydney. Bot.

Brazier, Amelia Rossiter, Curaçoa House, 82 Windmill St., Sydney. Con. C.\*

Brazier, Eleanor Rossiter, Curaçoa House, 82 Windmill St., Sydney. Con. C.\*

Brazier, Frederic Chas., Curaçoa House, 82 Windmill St., Sydney. Con.

Brazier, Frederic Chas., Curaçoa House, 82 Windmill St., Sydney. Con.
C. Australasian L., M. and F. W. Shells for sale.\*
Brazier, John, F.L.S., C.M.Z.S., Curaçoa House, 82 Windmill St., Sydney. Con., Eth., Numis., Bryozoa, Gen. Zool.\*
Brazier, Miss Sophie, M.S., Curaçoa House, 82 Windmill St., Sydney. Con., Postage Stamps. C.\*
Brown, Rev. George, D.D., C.M.Z.S. (London), Wesleyan Mission Office, 381 George St., Sydney. Photog., Anth., Philol., Eth. C.\*
Brown, W., 7 Norton St., Leichhardt. Orn.
Butler, Thos., Darlington-Road, Darlington. Mic.
Campbell, W. D., 46 Leicester St., Paddington. Geol.
Cantle, J. M., Yolande Cottage, Norton St., Leichhardt. Orn.
Card, George W., A.R.S.M., F.G.S., Cur. and Min. to the Geol. Survey of N.S.W., Geol. Survey Branch Mines Dept., Sydney. Min. C. of N.S.W., Geol. Survey Branch Mines Dept., Sydney. Min. C.

Coates, Alfred J., William St., Sydney. Mic., Hydroid Zoophytes. Cobb, N. A., B.Sc., Ph.D., Dept. Agric., Sydney. Crypt. Plants, Fungi, Chem., Mic., Photog., Zool., Gen. Biol., Emb., Invert. Anat., Histol., Worms.\*

Colyer, T., Tech. Mus., Sydney.

Cooksey, T., Ph.D., Min. to Australian Mus., Sydney. Min. Crummer, H. W. S., Dept. of Lands, Sydney.

Curran, Rev. John Milne, Tech. Mus., Sydney. Geol.
David, T. W. Edgeworth, B.A., F.G.S., etc., Prof. Geol., The University,
Sidney.
Dean, Miss, "Elland," Grafton St., Woollahra. Bot.

Dixson, D. Thos., 287 Elizabeth St., Sydney. Bacteriol.
Drake, Frank, Metallurgist, Leadville. Inorg. Chem., Metall., Elect.
Dudley, Uriah, F.G.S.A., F.A.I.M.E., Silverton. Geol., Min., Crystall.,

Metall. C. Ex.\*

Dymock, W., Book Arcade, George St., Sydney. Austr. Zool. Books. Ellis, Henry A., M.B., 3 Bayswater Houses, Double Bay, Siney. Etiology, etc.

Etheridge, Robert, Jr., Palæon., Geol. Survey, Dept. of Mines, Sydney.

Field, George, 500 Darling St., Balmain. Hemipt. Field, Henry, 500 Darling St., Balmain. Coleopt. Finkernagel, Bernard, J. P., I.X.L. Stores, Barraba. Anat., Ent. C. Ex.\*

Fletcher, J. J., M.A., B.Sc., Linnean Soc., Elizabeth Bay. Batrachians, Bot.

Frank, Louis, Coogee. Ent.
Froggatt, Walter W., Technological Mus., Sydney. Geog. Dist., Eth.,
Hymenopt. C. Hymenopt. Ex.\*

Fuller, Claude, Dept. Agric., Sydney. Hymenopt. Gale, Walter, Paddington, Sydney. Ast. Garland, J. B. R., 56 Elizabeth St., Sydney. Bot.

Garland, J. R., M.A., 56 Elizabeth St., Sydney. Bot.

Gipps, W. L. R., Bearbong, Gilgandra. Ent.

Grace, Mrs. Alice, care of A. Mackay, Esq., F.C.S., Tech. Coll., Sydney. Bot., Chem., Emb., Anat.\*

Grant, Henry, Taxidermist, Tank St., Lithgow, Blue Mountains, via Sydney. Tax. Ex.\*
Grant, Robert, Collector of Nat. Hist. Specimens, Australian Mus., Sydney.\*

Sydney.\* Sydney.\* Green, Arthur, Paling Bldgs., Ash St., Sydney. Bot., Zool. Green, C. L., Paling Bldgs., Ash St., Sydney. Bot. Zool. Green, Ernest W., Box 1467, G.P.O., Sydney. Bot., Zool. Green, Wm., Paling Bldgs., Ash St., Sydney. Bot., Zool. Grimun, Rev. Geo., The Manse, Balman West. Bot. Hamilton, A. G., Public School, Mount Kembla. Bot., Vermes, Actinida.\*

Haswell, Prof. Wm. A., Univ., Sydney. Zool.\* Hedley, C., Australian Mus., Sydney. Con., Moll. Helms, R., care of Gov't Ent., Dept. of Agric., Sydney. Ent., Bot.

Hurst, Geo., M.A., M.B., Box 1150, G.P.O., Sydney. Orn. Jones, J., Domain Lodge, Domain, Sydney. Bot. Mic. King, Georgina, Montesea, Beresford-Road, Homebush. Bot.

King, Hon. P. J., Double Bay. Eth. Lea, Arthur M., 7 Bourke St., Redfern. Coleopt.

Lenchan, H. A., Assist. Ast., Sydney Observatory.

MacDonnell, Samuel, 45 Norwich Chambers, Hunter St., Sydney. Mic. Mackay, Angus, Ph.D., F.C.S., Prof. of Agric., Tech. Coll., Sydney. Bot: Phæn. Plants, Fungi, Hort., Geol., Chem., Mic., Gen. Biol. C. Ex.\*

MacFherson, John, Bruce St., Petersham. Bot., Palæo., Gen. Biol., Emb., Vert. Anat., especially Cheiroptera, Arach. esp. Scorpionida. C.

Maiden, Joseph H., F.L.S., F.C.S., Tech. Mus., Sydney. Bot. C.\* Masters, George, Macleay Mus., Univ., Sydney. Ent., Orn. Moore, C., F.L.S., Dir. Botanic Gardens, Sydney. Bot., Hort.\*

Mullins, George L., M.A., M.D., Murong, Albion St., Waverley. Mic., Photog., Geog. Dist. C. Ex.\*
Mullins, John L., M.A. (Sydney Univ.), Killountan, Challis Ave., Sydney. Bibliog.\*

Musson, Chas. T., Lect. on Bot., and Registrar, Hawkesbury Agric. Coll., Richmond. Agric., Bot., Veg. Pathol.

Naylor-Beckett, I. W., Fandalhaw, Christchurch. Mosses.

North, A. J., F.L.S., Assist. in Orn., Australian Mus., Sydney. Orn.,

Ool. C.

Norton, Hon. Jas., M.L.C., 2, O'Connell St., Sydney. Bot.

Ogilby, J. Douglas, Australian Mus., Sydney. Vert., Mammals, Orn., Ool., Herpetol., Ichthyol., Osteol.\*

Olliff, A. Sidney, Govt. Ent., Dept. of Agric., Sydney. Ent., Mic., Geog. Dist. C. Ex.\*

Palmer, E. G. W., 50 Phillip St., Sydney. Eth.

Patten, Robert, Public School Master, Bolwarra, West Maitland. Hort., Hymenopt. C.\*

Pedley, Percival R., Macquarie St., Sydney. Mic. Porter, Donald A., Tamworth. Min., Lithol. C. Ex.\*

Prince, Henry, Manly. Ent., Con. Quaife, C., Hughenden, Queen St., Woollahra. Con. Rainbow, Wm. J., 315 Glenmore Road, Paddington, Sydney. Arach. C. Ex.\*

Ramsay, Ed. P., LL.D., F.R.S.E., C.M.Z.S., F.L.S., F.G.S., F.R.G.S., etc., Curator Australian Museum, Sydney. Gen. Zool., Bot.\* Richards, Ernest P., 32 Waterview St., Balmain, Sydney. Moll., Philately.

C. Ex.
Richards, Henry, Arthursleigh, Hill St., Leichhardt. Eth.
Rossiter, R. C., Noumea, New Caledonia. Con.
Russell, H. C., B.A., F.R S., C.M.G., Astronomer, Sydney Observ.\* Sellors, Richard P., Assist. Ast., Sydney Observ. Sinclair, Sutherland, Sec. Australian Mus., Sydney.\*

Sinciar, Sutheriand, Sec. Australian Mus., Sydney.\*
Skeet, Miss, 44 Moncur St., Woollahra. Bot., Con.
Skuse, F. A. A., Entomologist to Australian Museum, College St., Sydney.
Anthor of "Diptera of Australia," etc. Ent., Dipt.\*
Sloane, Thomas G., Emu Plains, Urana. Coleopt.\*
Smart, Wm., Dealer, Manly. Gen. Nat. Hist. C. Ex. and Sell.\*
Smith, Chris. H., Public School, Altear, Moama. Bot.\*
Starkey, Mrs., Nunert, Neutral Bay. Con.
Steele Kate L. Teacher, Dept. Public Instruction, High St. East Mait-

Steele, Kate L., Teacher, Dept. Public Instruction, High St., East Maitland. Bot : Ferns and Alga of N. S. Wales, Hort. C. Shells. Ex., particularly Foreign Ferns and Flowers, also Shells of all kinds.\*

Stephen, W., Maclean St., Woollahra. Con. Stevens, J., 22 Wigram St., Forest Lodge. Bot. Tanner, J. R., 166 John St., Pyrmont. Mic., Photog.

Thomas, H. C., Darlinghurst. Geol.
Thorpe, J. A., Australian Mus., College St., Sydney. Orn., Tax.
Tibbutt, Prof. John, Windsor. Ast.
Waite, Edgar R., F.L.S. (London), Asst. Cur., The Mus., Sydney. Gen.
Nat. Hist., esp. Orn. and Zool. C. of Birds.\*

Waterhouse, Gustavus J., Ellerslie, Birrell St., Waverley. Eth.

Waterhouse, Mrs. G. J., Ellerslie, Birrell St., Waverley, near Sydney. Con. C. Ex.\*

Whitelegge, Thos., F.R.M.S., Australian Mus., Sidney. Mosses, Mic., Photog., Crust., Worms, Radiates, Sponges, Protozoa.\*
Willis, Alex. D., Architect, "The Cedars," Hornseywood, Penrith. Vert.

Palæo., Min.\*

Wright, Horatio George A., M.R.C.S. (Eng.), L.S.A. (Lond.), 4 York St., Wynyard Sq., Sydney. Mic.

#### SOUTH AUSTRALIA.

Anderson, John, Port Lincoln. Coleopt. of District. Baker, W. H., Glen Osmond Road, Parkside. Mic. Blackburn, Rev. Thos., B.A., Woodville. Coleopt.\* Boettger, Otto, Flinders St., Adelaide. Optics, Optical Instruments. Brown, H. Y. L., F.G.S., Govt. Geol., Adelaide. Geol. Goyder, G. W., C.M.G., Surveyor Gen., Adelaide.

Holtzc, Nicholas, Cur. Bot. Garden, Port Darwin. Bot: Phan. Plants, Hort., Veg. Palao., Photog., Geog. Dist. C. Ex. Holtze, Maurice, F.L.S., Dir. Bot, Garden, Adelaide. Bot., Hort.\* Howchin, Walter, F.G.S., Essex St., Goodwood East, Adelaide. Invert.

Palæo., Geol., Protozoa, Foraminifera. C. Ex.\*

Lowrie, Prof., M.A., B.Sc., Prof. of Agric. and Dir. Agric. College, Adelaide.

Molineux, A., Kent Town. Agric., Dairying.

Poole, W. B., Adelaide. Mic.

Rennie, Prof. E. H., D.Sc., F.C.S., Univ., Adelaide. Chem., Min.

Rosewarne, David D., F.G.S., M.A.I.M.E., Mining Engineer, Late Gov't Inspector of Mines, Adelaide. Min., Crystall., Lithol., Metall. C. Min. Ex.\*

C. Min. Ex.\*
Shaw, G. G., Douglas St., Parkside. Bibliog., Numis. C. Ex.\*
Stirling, E. C., M.A., M.D., F.R.C.S., C.M.Z.S., Hon. Dir. So. Australian Mus., Univ., Adelaide. Lect. on Physiol.
Tate, Ralph, A.L.S., Prof. Nat. Sci. of Univ., Adelaide.
Tepper, J. G. Otto, F.L.S., Mus. Entomologist, Norwood, or care of Messrs.
E. S. Wigg & Son, Bookscllers, Adelaide. Geol., Bot., Ent., Orthopt.,
C. Ex. plants and insects in special cases. The latter for the Public Museum only.\*

Watson, Archibald, M.D., F.R.C.S., Prof. Anat., Adelaide.\* Whittell, H., M.D., F.R.M.S., Adelaide. *Mic.* 

Zietz, A., Asst. Cur. Museum, Adelaide. Biol., Fishes, Reptiles, Crustacea, Gen. Marine Fauna and Flora.

#### QUEENSLAND.

Bailey, Frederick Manson, F.L.S., Colonial Bot., Brisbane. Bot. Bancroft, Joseph, M.D., Brisbane. Diseases of Plants, Sugar Cane, Banana, and others. Human Filaria, Contributions to Pharmacy from Queensland, History of Pituri and Dubosia, Respiration of Shore Plants, Rust-resisting Wheats. Manufacturer of Pemmican and Desiccated Beef. Ex. seeds of Economic plants; desires seeds of aquatic plants and cultivated Leguminose of America.

Barnard, Geo., Coomooboolaroo, Duaringa. Ent., Ovl., Lepid. C. Ex.\*
Bernays, L. A., F.L.S., Legislative Council, Brisbane. Bot.
Clarke, A. W., F.G.S., Mosman St., Charters Towers. Chem., Min.,
Petrog.

De Vis, C. W., M.A., Queensland Mus., Brisbane. Ex. Gregory, Augustus C., Member of the Legislative Council, Brisbane. Gulliver, T.A., F.L.S., Elect. Telegraph Manager, Townsville, Northern

Queensland. Bot., Ferns, Agric., Plants, Zool., Orn., Ent., Coleopt., Hort. C. Ex.

Jack, Robert Logan, F.G.S., F.R.G.S., Dir. Geol. Survey of Queensland, Townsville, North Queensland. Palao., Geol. C.

Lucas, Dr. S. P., South Brisbanc, Brisbane. Ent.

MacMahon, Philip, Curator Bot. Gardens, Brisbane. Maitland, A. G., F.G.S., Geol. Survey Office, Townsville. Geol., Min., Petrog.

Miskin, W. H., Brisbanc and Sherwood Rd., Tuowomba. Lepid.
Plant, C. F., F.R.A.S., Charters Towers, North Queensland.
Rands, Wm. H., F.G.S., Geol. Survey of Queensland, Maryborough.
Geol., Min., Petrog.
Ringrose, R. C., Herberton, N. Queensland. Geol., Min., Con.
Saville-Kent, W., F.S.S., F.Z.S., Commissioner of Fisherics, Brisbane.

Ex.

Shelton, Prof. E. M., Instr. in Agric. for Qucensland, care of under Sec'y for Agric., Brisbanc. Agric.

Shirley, John, B.Se., Inspector of Schools, Brighton Road, S. Brisbane. Lichens. C. Ex.

Simmonds, J. H., Adelaide St., Brisbane. Bot. C. Ex

Stokes, Henry H., F.G.S., Queensland Mus., William St., Brisbane. Min. Ex. Queensland Minerals for American.\*

Thompson, Wm., Assoc. M. Inst. C. E., F.G.S., F.R.G.S., Gov't Mineralogical Lecturer, Charters Towers. Min., Geol.\*

Wild, C. J., F.L.S., Brisbanc. Mosses, Hepaticæ. C. Ex. Wragge, Clement L., F.R.G.S., F.R. Met. Soc., etc., Gold Medallist of Ben Nevis Obs., Dir. Chief Weather Bureau, Brisbane. Meteo., Geol., Bot., Con., Ethnog.

#### VICTORIA.

Anderson, E., 19 Cunningham Road, Toorak. Lepid.

Archer, W. H., F.L.S., Alverns, Grace Park, Glueferrie. Lichenol.
Bale, W. M., F.R.M.S., Walpole St., Kew. Hydrozoa.
Balfour, J. L., M.A., "Tyalla," Heyington Place, Toorak. Geol.
Bastow, Richard A., 329 Brunswick St., Fitzroy, (Melbourne). Mosses.
Barnard, F., 49 Bulleen Road, Kew. Micro-Fungi.
Barnard, F. G. A., 49 Bulleen Road, Kew. Ent.
Best, D., 16 Little Collin St., Melbourne. Coleopt.
Brittlebank, C. C., "Dunbar," Myrniong. Ent.
Campbell, A. J., H. M. Customs, Melbourne. Ool.\*
Christy, F. C., M. L. C.E., "St. Cyr.," Williams St., South Yarra. Ent. Christy, F. C., M.I.C.E., "St. Cyr," Williams St., South Yarra. Ent. Dennant, J., F.C.S., "Lyndhurst Crescent," Hawthorn. Geol. Dunn, Edw. G., Geol. Survey Office, Melbourne. Geol., Min.

Ellery, R. L. J., C.M.G., F.R.S., F.R.A.S., The Observatory, South Yarra. Ast.

Fielder, Rev. W., "Norwood," Mitchell St., St. Kilda. Gen. Zool.

French, Chas., F.L.S., F.R.H.S., Government Entomologist, Exhibition Building, Melbourne. Coleopt. (Economic), Hort., Ent. C. Ex.\*
French, C., Jr., Arnold St., South Yarra, Melbourne. Ool., Phaen.,
Plants. C.\*

Frost, C. F. L. S., Mt. Victor Road, Kew. Arach., Reptilia. Gabriel, J., Simpson's Road, Abbotsford. Polyzoa, Ool. Gatliffe, J. H., Commercial Bank, Collingwood. Con. Grayson, H., Moy St., St. Kilda. Diatoms, Geol. Sections, Mic. Prepara-

tions.

Guilfoyle, Wm. R., F.L.S., F.R.G.S., C. M. Royal Bot. Soc., London. Dir. Bot. Garden, Melbourne. C. Ex.

Hall, T. S., M.A., School of Mines, Castlemaine. Geol.

Hart, J. S., M.A., B.Sc., Wilson St., Brighton. Zool., Bot.
Hart, J. S., M.A., B.Sc., Wilson St., Brighton. Zool., Bot.
Hayter, Henry Heylyn, C.M.G., Officer of the French Order of Public
Instruction, Chev. of the Italian Order of the Crown, Government
Statist of Victoria, Melbourne. Statistical Research. The "Victorian Year Book," and other statistical publications relating to Australia, in exchange for similar works respecting other countries.\*

Keartland, G. A., 512 Nieholson St., North Carlton. Orn.

Kershaw, J., Nat. Mus., Melbourne. Ent. Kershaw, W., Wexham Road, Windsor. Ent. Langtree, C. W., Commissioner H. M. Public Service, late Sec. for Mines and Water Supply, and Chief Mining Surveyor. Fellow and ex-Pres. of the Victoria Inst. of Surveyors and Engineers, Melbourne. Strat. Geol., Phys., Min., Elect., Meteo., Ast. C. Ex.

Litton, Robert T., F.G.S., 17 Queen St., Melbourne. Geol., Zool.

Litton, Robert T., F.G.S., 17 Queen St., Melbourne. Geol., Zool.
Lyell, G., care of Cherry & Sons, Gisborne. Ent.
Love, E. N. J., M.A., Queen's Coll., Univ., Melbourne. Physicist.
MacGillivray, —, M.D., LL.D., Bendigo. Polyzoa.
Mapleston, C., Bulleen Road, Kew. Mic.
Marsh, F., "Torrington," Bourke Road, Balwyn. Orn.
Martin, D., Sec'y. Agric., The Treasury, Melbourne. Agric.
Martin, Flora, "Weebar," Drouin, Victoria, and W. Brighton, Melbourne.
Crypt. Plants, Ferns, Mosses, Lichens, espec. Fungi. Giant Earthworms of Australia. C. Ex.\*
McAlpine, D., Gov't. Vegetable Pathologist, Public Office, Melbourne.
Ven. Pathol.

Veg. Pathol.

McCoy, Fred'k., C.M.G., D.Sc., F.R.S, Prof. Nat. Sci., Univ., Melbourne. Mueller, Baron Ferd von, M.D., Ph.D., K.C.M.G., F.R S., F.L.S., F.G.S.,

F.C.S., etc., Melbourne. Bot., Rural Industries, Chem., Palaco. Le Souef, Albert A. C., Dir. Zool. Gardens, Royal Park, Melbourne. Zool., Gen. Biol., Orn., Ool., Lepid., Coleopt. C. Ex.\*

Shephard, J., Seymour Grove, Brighton Beach, Melbourne. Rotifera. Spencer, W. Baldwin, M.A., Prof. Biol., Univ. of Melbourne. Biol.

Polyzoa.

Spry, F., 38 Little Collins St., Melbourne. Lepid.
Steedman, C. E., F.C.S., 20 Stevedore St., Williamstown. Bot., Chem.,
Mic., Cultivation of Drugs, Fostage Stamps. C. Ex. seeds of medicinal plants. Corr. solicited.\*

Sweet, J., Wilson St., Brunswick. Geol.
Tisdall, H. T., F.L.S., Washington St., Toorak. Bot.
Topp, C. A., M.A., Ll.B., Grand View Grove, E. Peahran. Bot.

Wilson, Rev. Francis R. M., Kew. Lichens. C. Ex.\* Worcester, T., Ashburnham, Frankston. Con.

#### WESTERN AUSTRALIA.

Hancock, Wm. J., Elect. Eng., A.M.I.C.E., M.I.E.E., Supt. of Telegraphs, Perth. Bot., Geol., Chem., Metall., Physics, Elect., Mic., Photog., Meteo., Ast., Zool., Emb.\* Woodward, Bernard Henry, F.G.S., Curator of Gov't Museum, Gov't

Assayer, Perth. Mineralogist and Chemist.\*

Woodward, Harry, Page, F.G.S., F.R.G.S., Government Geol., Perth. Field Geol. and Mining.\*

### JAVA.

Bemmelen, Dr. J. F. van, Bibliothecar of the Royal Soc. of Nat. Sci.

Battavia. Zool.\*

Benecke, Franz, Dr. Phil., Klaten. Bot.\*

Borosma, Dr. J., Head. Pharm. Lab., Gov't Bot. Garden, Buitenzorg.

Breda de Haan, Dr. J. van, 's Lands Plantentuin, Buitenzorg. Bot.\*

Brutet de la Rivière, J. J., Libravian, Gov't Bot. Garden, Buitenzorg. Burck, Dr. W., Buitenzorg. Scientific Adviser for the Coffee Cultures. Eykman, Dr. C., Dir. Bacteriol. Inst., Batavia.

Fruhstorfer, H., care of German Consulate, Sourabaia. Purchase and Ex. of Lepid., Coleopt., and Land Shells of the World.\*
Greshoff, M., Ph.D., Buitenzorg. Org. Chem., Comparative Phyto-Chem.,

Pharmacology of Indian Plants and Drugs.\*

Hallier, Dr. J. G., Assist. Keeper, Mus. and Herbarium, Gov't Bot. Garden, Buitenzorg.

Janse, J. M., Dr., Botanical Garden, Buitenzorg. Bot., Physiol., Anat., Pathol., Biol.\*

Kerkhoven, August, Ardja Sari, Preanger Regencies. Coleopt. of East Indies. C.

Kobus, J. D., Ed: Archief voor de Javasuiker Industrie. Soerabaia. Bot.\*

Koorders, S. H., Bot. Gardens, Buitenzorg. Forest Flora Malayan Archipelago.\*

Kramers, Dr. J. G., Dir. Exper. Station for the Culture of Sugar Cane. Passoeroean. Chem.

Lefèbre, T. W., Gardener of the Mountain Garden, Bot. Garden, Buiten-

Lohmann, C. J. E., Chem. Assist. for research on Tea, Gov't Bot. Garden,

Buitenzorg.

Lucassen, Th. F., Kemanglen (Tegal). Coleopt.

Marr, Dr. Th., Chemist, Passoeroean.

Massink, A., Curator Agric. Garden and Laboratorium, Buitenzorg.

Mouchy, P. de, Conserv. Mns. and Herbarium, Gov't Bot. Garden,
Buitenzorg.

Netscher, Otto, Batavia. Coleopt. Prinsen Geerligs, H. C., Chemist at the Exper. Station for Sugar Cane of West Java, Tegal. Chem.\* Romburgh, Dr. P., Head of the Agric. Garden and Laboratorium, Gov't

Bot. Garden, Buitenzorg. Romunde, R. van, Dir. Gov't Cinchona Plantations, Bandong.

Sijthoff, P. F., Jzn., Mang'r Cinchona Estate, Kertamanah, Bandoeng. Lepid., Coleopt. C. Will sell insects.\* Smith, J. J., Assistant Curator Bot. Gardens, Buitenzorg.

Treub, Melchior, Dir. Gov't Bot. Gard., Buitenzorg. Bot.\* Valeton, Dr. Th., Bot. Garden, Buitenzorg. Flora Mal. Arch.

Verbeek, Dr. R. D. M., Govt. M.E., Dir. Gool. Survey, Buitenzorg. Phys. Geol.\*

Vorderman, A. G., Inspector of the Civil Med. Service for Java and

Madura, Batavia. \*Orn., Bromatology. C.\*
Wakker, Dr. J. H., Dir. Sci. Stat. for Sugar Culture, Passocroean.

Went, Dr. F. A. F. C., Dir. of the Sugar Exper. Station of West Java, Kagok, Tegal. Bot., Crypt. Plants, Fungi.\* Wigman, H. J., Curator Bot. Gardens, Buitenzorg.

## FIJI ISLANDS.

Yeoward, Daniel, Curator Bot. Station, Fiji.

### HAWAIIAN ISLANDS.

Baldwin, D. D., Haiku Maui. Bot., Mosses and Ferns, L. and F. W. Shells. C.\*

Bishop, Rev. Sereno, Honolulu. Ast.
Brigham, Wm. T., Cur. Bernice Panahi Bishop Mus. of Polynesian Eth.,
Honolulu. Bot., Fhotog., Anth., Eth., Ethnog., Moll. Ex.\*
Emerson, Joseph Swift, Honolulu. Anth., Arch., Eth., Moll. C. Ex.\*
Lyons, A. B, M.D., F.C.S., Gov't Chemist of the Hawaiian Islands and

Prof. of Nat. Sciences in Oahu College, Honolulu, H. I. Min., Bot.,

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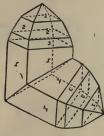
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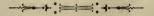
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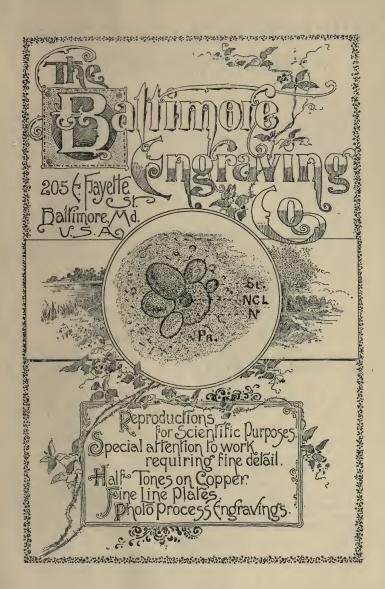
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